



COLOR LASER PRINTER User's Guide CLP-300 Series

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Important Precautions and Safety Information

When using this machine, these basic safety precautions should always be followed to reduce risk of fire, electric shock, and injury to people:

- Read and understand all instructions.
- 2 Use common sense whenever operating electrical appliances.
- 3 Follow all warnings and instructions marked on the machine and in the literature accompanying the machine.
- 4 If an operating instruction appears to conflict with safety information, heed the safety information. You may have misunderstood the operating instruction. If you cannot resolve the conflict, contact your sales or service representative for assistance.
- 5 Unplug the machine from the AC wall socket before cleaning. Do not use liquid or aerosol cleaners. Use only a damp cloth for cleaning.
- 6 Do not place the machine on an unstable cart, stand or table. It may fall, causing serious damage.
- 7 Your machine should never be placed on, near or over a radiator, heater, air conditioner or ventilation duct.
- 8 Do not allow anything to rest on the power cable. Do not locate your machine where the cords will be abused by persons walking on them.
- 9 Do not overload wall outlets and extension cords. This can diminish performance, and may result in the risk of fire or electric shock.
- 10 Do not allow pets to chew on the AC power or PC interface cords.
- 11 Never push objects of any kind into the machine through case or cabinet openings. They may touch dangerous voltage points, creating a risk of fire or shock. Never spill liquid of any kind onto or into the machine.
- 12 To reduce the risk of electric shock, do not disassemble the machine. Take it to a qualified service technician when repair work is required. Opening or removing covers may expose you to dangerous voltages or other risks. Incorrect reassembly could cause electric shock when the unit is subsequently used.
- 13 Unplug the machine from the PC and AC wall outlet, and refer servicing to qualified service personnel under the following conditions:
 - When any part of the power cord, plug, or connecting cable is damaged or frayed.
 - If liquid has been spilled into the machine.
 - If the machine has been exposed to rain or water.
 - If the machine does not operate properly after instructions have been followed.
 - If the machine has been dropped, or the cabinet appears damaged.
 - If the machine exhibits a sudden and distinct change in performance.
- 14 Adjust only those controls covered by the operating instructions. Improper adjustment of other controls may result in damage, and may require extensive work by a qualified service technician to restore the machine to normal operation.
- 15 Avoid using this machine during a lightning storm. There may be a remote risk of electric shock from lightning. If possible, unplug the AC power for the duration of the lightning storm.
- 16 If you continuously print multiple pages, the surface of the output tray may become hot. Be careful not to touch the surface, and keep children away from the surface.

- 17 The Power cord supplied with your machine should be used for safe operation. If you are using a cord which is longer than 2 m with 110 V machine, then it should be 16 AWG* or bigger.
- 18 SAVE THESE INSTRUCTIONS.

Laser Safety Statement

The printer is certified in the U.S. to conform to the requirements of DHHS 21 CFR, chapter 1 Subchapter J for Class I (1) laser products, and elsewhere, is certified as a Class I laser product conforming to the requirements of IEC 825.

Class I laser products are not considered to be hazardous. The laser system and printer are designed so there is never any human access to laser radiation above a Class I level during normal operation, user maintenance, or prescribed service condition.

WARNING

Never operate or service the printer with the protective cover removed from Laser/Scanner assembly. The reflected beam, although invisible, can damage your eyes.

When using this product, these basic safety precautions should always be followed to reduce risk of fire, electric shock, and injury to persons:



CAUTION - CLASS 3B LASER RADIATION WHEN OPEN AVOID EXPOSURE TO THE BEAM.

DANGER - LASER RADIATION AVOID DIRECT
EXPOSURE TO BEAM.

DANGER - RADIATIONS INVISIBLES DU LASER EN CAS D'OUVERTURE. EVITER TOUTE EXPOSITION DIRECTE AU FAISCEAU.

VORSICHT - UNSICHTBARE LASERSTRAHLUNG, WENN ABDECKUNG GEÖFFNET. NICHT DEM STRAHL AUSSETZEN.

ATTENZIONE - RADIAZIONE LASER INVISIBILE IN CASO DI APERTURA. EVITARE L'ESPOSIZIONE AL FASCIO.

PRECAUCIÓN - RADIACIÓN LASER INVISIBLE CUANDO SE ABRE. EVITAR EXPONERSE AL RAYO.

PERIGO - RADIAÇÃO LASER INVISÍVEL AO ABRIR. EVITE EXPOSIÇÃO DIRECTA AO FEIXE.

GEVAAR - ONZICHTBARE LASERSTRALEN BIJ GEOPENDE KLEP. DEZE KLEP NIET OPENEN.

ADVARSEL - USYNLIG LASERSTRÅLNING VED ÅBNING. UNDGÅ UDSAETTELSE FOR STRÅLNING.

ADVARSEL. - USYNLIG LASERSTRÅLNING NÅR DEKSEL ÅPNES. UNNGÅ EKSPONERING FOR STRÅLEN.

VARNING - OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPEN. STRÅLEN ÄR FARLIG.

VAROITUS - NÄKYMÄTÖNTÄ LASERSÄTEILYÄ AVATTAESSA. VARO SUORAA ALTISTUMISTA SÄTEELLE.

注 意 严禁揭开此盖,以免激光泄露灼伤

주 의 -이 덮개를 열면 레이저광에 노출될 수 있으므로 주의하십시오.

^{*} AWG: American Wire Gauge

Ozone Safety



During normal operation, this machine produces ozone. The ozone produced does not present a hazard to the operator. However, it is advisable that the machine be operated in a well ventilated area.

If you need additional information about ozone, please contact your nearest Samsung dealer.

Power Saver

This printer contains advanced energy conservation technology that reduces power consumption when it is not in active use.

When the printer does not receive data for an extended period of time, power consumption is automatically lowered.

Recycling



Please recycle or dispose of packaging materials for this product in an environmentally responsible manner.

Correct Disposal of This Product (Waste Electrical & Electronic Equipment)

(Applicable in the European Union and other European countries with separate collection systems)



This marking shown on the product or its literature, indicates that it should not be disposed with other household wastes at the end of its working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate this from other types of wastes and recycle it responsibly to promote the sustainable reuse of material resources.

Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take this item for environmentally safe recycling.

Business users should contact their supplier and check the terms and conditions of the purchase contract. This product should not be mixed with other commercial wastes for disposal.

Radio Frequency Emissions

FCC Regulations

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- · This device may not cause harmful interference, and
- This device must accept any interference received, including interference that may cause undesired operation.

This device has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- •Reorient or relocate the receiving antenna.
- •Increase the separation between the equipment and receiver.
- •Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- •Consult the dealer or an experienced radio/TV technician for help.

CAUTION: Changes or modifications not expressly approved by the manufacturer responsible for compliance could void the user's authority to operate the equipment.

Canadian Radio Interference Regulations

This digital apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus as set out in the interference-causing equipment standard entitled "Digital Apparatus", ICES-003 of the Industry and Science Canada.

Cet appareil numérique respecte les limites de bruits radioélectriques applicables aux appareils numériques de Classe B prescrites dans la norme sur le matériel brouilleur: "Appareils Numériques", ICES-003 édictée par l'Industrie et Sciences Canada.

Declaration of Conformity (European Countries)

Approvals and Certifications



The CE marking applied to this product symbolises Samsung Electronics Co., Ltd. Declaration of Conformity with the following applicable 93/68/EEC Directives of the European Union as of the dates indicated:

January 1, 1995: Council Directive 73/23/EEC Approximation of the laws of the member states related to low voltage equipment.

January 1, 1996: Council Directive 89/336/EEC (92/31/EEC), approximation of the laws of the Member States related to electromagnetic compatibility.

March 9, 1999: Council Directive 1999/5/EC on radio equipment and telecommunications terminal equipment and the mutual recognition of their conformity.

A full declaration, defining the relevant Directives and referenced standards can be obtained from your Samsung Electronics Co., Ltd. representative.

Replacing the Fitted Plug (for UK Only)

I MPORTANT

The mains lead for this machine is fitted with a standard (BS 1363) 13 amp plug and has a 13 amp fuse. When you change or examine the fuse, you must re-fit the correct 13 amp fuse. You then need to replace the fuse cover. If you have lost the fuse cover, do not use the plug until you have another fuse cover.

Please contact the people from you purchased the machine.

The 13 amp plug is the most widely used type in the UK and should be suitable. However, some buildings (mainly old ones) do not have normal 13 amp plug sockets. You need to buy a suitable plug adaptor. Do not remove the moulded plug.

WARNING

If you cut off the moulded plug, get rid of it straight away. You cannot rewire the plug and you may receive an electric shock if you plug it into a socket.

IMPORTANT WARNING: You must earth this machine.

The wires in the mains lead have the following color code:

Green and Yellow: EarthBlue: Neutral

• Brown: Live

If the wires in the mains lead do not match the colors marked in your plug, do the following:

You must connect the green and yellow wire to the pin marked by the letter "E" or by the safety 'Earth symbol' or colored green and yellow or green.

You must connect the blue wire to the pin which is marked with the letter "N" or colored black.

You must connect the brown wire to the pin which is marked with the letter "L" or colored red.

You must have a 13 amp fuse in the plug, adaptor, or at the distribution board.

EU Declaration of Conformity (LVD, EMC)

For the following product:

Color Laser Beam Printer

(Product name)

CLP-300N,CLP-300,Phaser6110

(Model Number)

Manufactured at:

1.Samsung Electronics Co.,Ltd. #259, Gongdan-Dong, Gumi-City, Gyungbuk, KOREA. 730-030 2.Shandong Samsung Telecommunications Co., Ltd. #264209, Samsung Road, Weihai Hi-Tech IDZ Shandong Province CHINA

(factory name, address)

We hereby declare, that all major safety requirements, concerning to CE Marking Directive[93/68/EEC] and Low Voltage Directive [73/23/EEC], ElectroMagnetic Compatibility [89/336/EEC], amendments [92/31/EEC] are fulfilled, as laid out in the guideline set down by the member states of the EEC Commission.

This declaration is valid for all samples that are part of this declaration, which are manufactured according to the production charts appendix.

The standards relevant for the evaluation of safety $\&\ EMC$ requirements are as follows :

- 1. Certificate of conformity / Test report issued by :
- 2. Technical documentation kept at :

LVD : ETL SEMKO

EMC : SAMSUNG Electronics Co.,Ltd. Suwon EMC Test Lab

which will be made available upon request.

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Yong-Sang Park / Manager

(place and date of issue)

(name and signature of authorized person)

1 Introduction

Congratulations on the purchase of your printer!

This chapter includes:

- Special Features
- · Printer Components
- Understanding the Control Panel

Special Features

Your new printer is equipped with several special features that will improve print quality. You can:

Print in color with excellent quality and speed



- You can print in a full range of colors using cyan, magenta, yellow, and black.
- You can print up to 2400 x 600 dpi (effective output). For details, see the Software Section.
- Your printer prints A4-sized paper at 16 ppm in black and white mode and 4 ppm in color mode.

Use multiple types of media easily



 The Standard 150-sheet tray supports A4/letter-sized paper and special materials like letterhead, envelopes, labels, custom-sized materials, postcards, transparency, and heavy paper.

Create professional documents



- Print **Watermarks**. You can customize your documents with a watermark, such as the word "Confidential." For details, see the **Software Section**.
- Print Posters. The text and pictures of each page of your document can be magnified and printed across several sheets of paper and taped together to form a poster. For details, see the Software Section.
- Print Booklets. This feature enables you to easily print a
 document to create a book. Once printed, all you have to do is
 fold and staple the pages. For details, see the Software
 Section.

Save time and money



- You can print multiple pages on a single sheet of paper to save paper.
- You can manually print on both sides of the paper (Manual double-sided printing) in Windows and Macintosh. For details, see the Software Section.
- You can use preprinted forms and letterhead. For details, see the Software Section.
- This printer automatically conserves electricity by substantially reducing power consumption when not printing.

Print in various environments



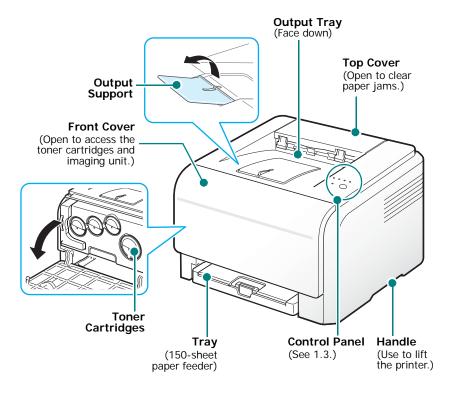
You can print in **Windows 98/Me/NT 4.0/2000/2003/XP**. Windows NT 4.0 is only supported on the CLP-300N.

- Your printer is compatible with Macintosh and various Linux OS.
- Your printer comes with a USB interface.
- The CLP-300N comes with a built-in Network interface, 10/100 Base TX. The CLP-300 does not support a network interface.

Printer Components

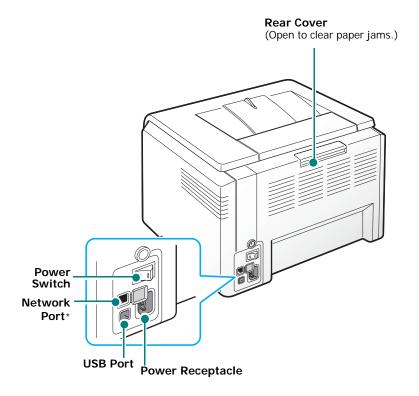
These are the main components of your printer. Note that all illustrations on this User's Guide are from the CLP-300N and that some parts may be different from your printer.

Front View



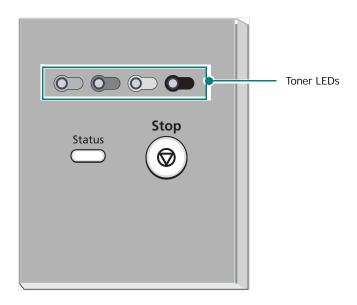
NOTE: The surface of the output tray may become hot if you print a large number of pages at once. Please make sure that you don't touch the surface, and prevent children from approaching it.

Rear View



* Only the CLP-300N comes with a network port.

Understanding the Control Panel



LEDs

Status LED	Toner LEDs	Description
lights green	All LEDs off	The printer is ready to print.
slowly blinks green	All LEDs off	The printer is receiving data from the computer.
fast blinks green	All LEDs off	The printer is printing data.
lights red	All LEDs off	 The printer is experiencing an error, such as jammed paper, open cover, empty paper, not installated waste toner container, or full waste toner container. The printer is experiencing a service required error, such as LSU error, fuser error, or ITB error. Contact your sales or service representative.
lights green	each LED blinks red	Each toner cartridge is near the end of its life.

Status LED	Toner LEDs	Description
blinks red	each LED lights red	Each toner cartridge is almost empty. You can print. but the quality is not reliable.
lights red	each LED lights red	Each toner cartridge is totally exhausted. You can not print.Each toner cartridge is wrong.
lights green	each LED blinks red in a repeated order	The printer is warming up.

Note: All printing errors will be appear in the Smart Panel program window.

Stop button

Function	Description
Printing demo page	In Ready mode, press and hold this button for about 2 seconds until the Status LED blinks fast, and release.
Printing configuration sheets	In Ready mode, press and hold this button for about 5 seconds until the Status LED blinks fast, and release.
Canceling print job	Press this button during printing. The red LED blinks while the print job is cleared from both the printer and the computer, and then the printer returns to Ready mode. This may take some time depending on the size of the print job.

Setting Up Your Printer

This chapter gives you step-by-step instructions for setting up your printer.

This chapter includes:

- Unpacking
- · Installing the Toner Cartridges
- · Loading Paper
- · Connecting a Printer Cable
- · Turning the Printer On
- · Printing a Demo Page
- · Installing the Printer Software

Unpacking

1 Remove the printer and all of the accessories from the packing carton. Make sure that the printer has been packed with the following items:





Power Cord





Printer software CD

Quick Install Guide





Network Utilities CD (CLP-300N only)

Network Printer Quick Guide (CLP-300N only)

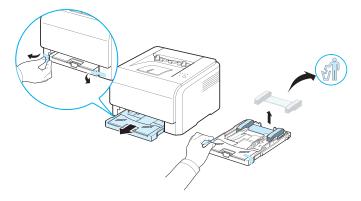
Notes:

- If any items are missing or damaged, notify your dealer immediately.
- · Components may differ from one country to another.
- The Printer Driver CD contains the printer driver, the User's Guide, and the Adobe Acrobat Reader program.
- The appearance of the power cord may differ depending on your country's specifications. The power cord must be plugged into a grounded power socket.

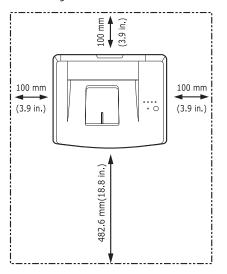


CAUTION: Because your printer weighs 13.6 kg including the toner cartridges and the tray, it may move when you use it; for example, when opening/closing the tray or installing/removing the toner cartridge. Be careful not to move the printer.

2 Remove the packing tape in front of the tray and pull the tray out. Remove the packing tape and paper cushion from the tray.



- 3 Select a location for the printer:
 - Leave enough room to open the tray and covers, and to allow for proper ventilation.
 - Provide the proper environment:
 - A firm, level surface
 - Away from the direct airflow of air conditioners, heaters, or ventilators
 - Free of temperature, sunlight, and humidity extremes or fluctuations
 - Clean, dry, and free of dust





CAUTION: You must place your printer on a level surface. If you do not, print quality problems can occur.

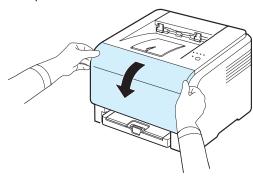


CAUTION: If you have to move the printer laid a side or upside down, remove the waste toner container from the printer and move it separately. Or the inside of the printer may be contaminated.

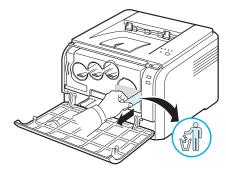


Installing the Toner Cartridges

1 Open the front cover.



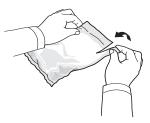
2 Pull and remove the paper protecting the imaging unit.



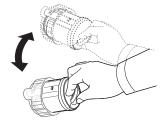
3 Remove four dummy caps which are on the toner cartridge entrances of the imaging unit.



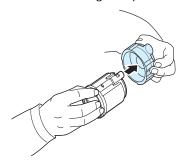
4 Remove the toner cartridges from their bags.



5 Holding the toner cartridges, shake thoroughly them from side to side to distribute the toner.

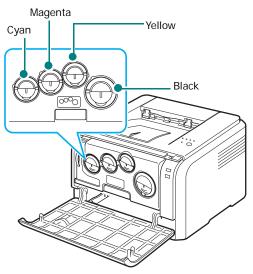


6 Remove the cartridges cap.

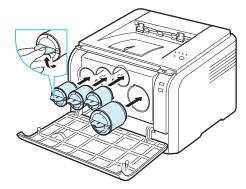


Note: If toner gets on your clothing, wipe it off with a dry cloth and wash it in cold water. Hot water sets toner into fabric.

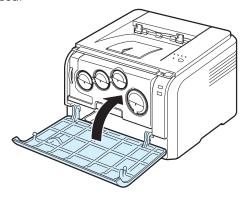
7 On the imaging unit of the printer, labels identify which color cartridge goes into each cartridge slot.



8 Grasp the toner cartridges and align them with the slots inside the printer. Insert them into their corresponding slots until they click into place.



9 Close the front cover. Make sure that the cover is securely closed.





CAUTION: If the front cover is not completely closed, the printer will not operate.

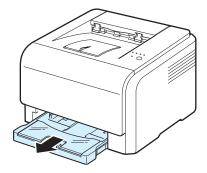
Note: When printing text at 5% coverage, you can expect a toner cartridge life of about 2,000 pages for black and white printing and 1,000 pages for color printing. However, the toner cartridge that is shipped with the printer prints 1,500 pages for black and white, 700 pages for colors.

Loading Paper

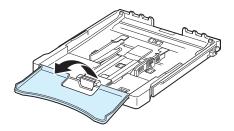
The tray can hold a maximum of 150 sheets of 20 lb (75 g/m 2) plain paper. You can use various paper including plain paper.

To load paper:

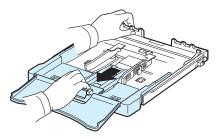
1 Pull the tray out of the printer.



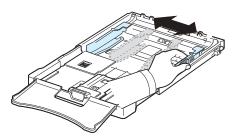
2 Open the paper cover.



3 Adjust the size of tray until it sounds click.



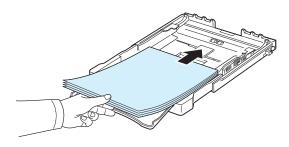
4 Enlarge the tray by adjusting the paper width guide.



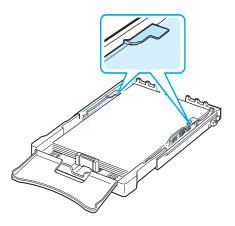
5 Flex the paper sheets back and forth to separate the pages and then fan them while holding one edge. Tap the edges of the stack on a flat surface to even it up.



6 Load paper with the print side up.

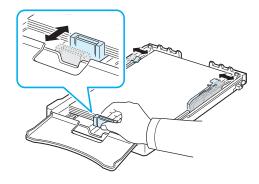


Make sure not to overfill the tray and that all four corners are flat in the tray and under the brackets, as shown below. Overfilling the tray may cause a paper jam.

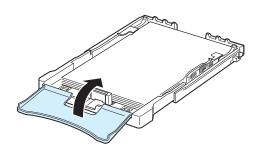


NOTE: If you want to change the size of the paper in the tray, refer to "Changing the Size of the Paper in the Tray" on page 2.5.

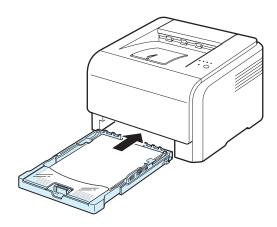
7 Squeeze the paper length guide and slide in it until it lightly touches the end of the paper stack.



8 Close the paper cover.



9 Slide the tray back into the printer.

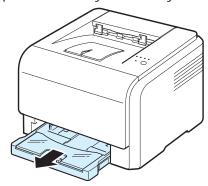


Note: After you load paper, you need to set up your printer for the paper type, size, and source you loaded. For details, see the **Software Section**.

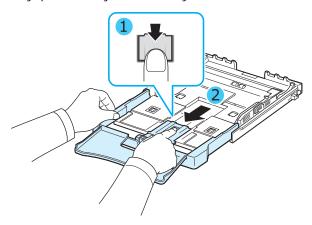
Changing the Size of the Paper in the Tray

To change the tray size to other size, you must adjust the paper length guide properly.

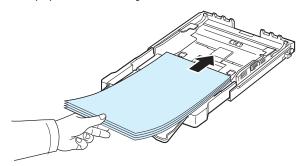
1 Pull the tray out of the printer. Open the paper cover and remove paper from the tray if necessary.



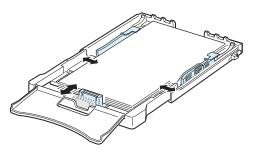
2 Pressing and unlatching the guide lock in the top of the tray, pull the tray out manually.



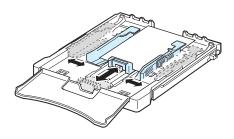
3 Load paper into the tray.



4 Slide the paper length guide until it lightly touches the end of the paper stack. Squeeze the paper width guide and slide it to the edge of the paper stack without causing it to bend.



For paper smaller than Letter-sized, return the paper guides to their original positions and adjust the paper length guide and paper width guide.



Notes:

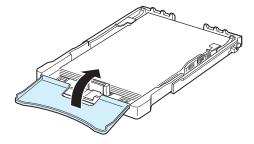
- Do not push the width guide far enough to cause the material to warp.
- If you do not correctly adjust the width guide, it may cause a paper jam.







5 Close the paper cover.



6 Slide the tray back into the printer.

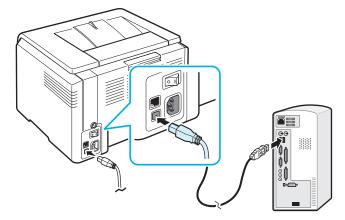
Connecting a Printer Cable

For Local Printing

To print from your computer in a local environment, you need to connect your printer to the computer with a Universal Serial Bus (USB) cable.

Note: Connecting the printer to the USB port of the computer requires a certified USB cable. You will need to buy a USB 2.0 compliant cable that is not longer than 3 m.

- 1 Make sure that both the printer and the computer are turned off.
- Plug the USB cable into the connector on the rear of the printer.



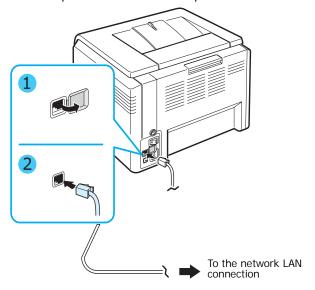
3 Connect the other end of the cable to the USB port on your computer.

Note: To print using the USB interface, you must run Windows 98/Me/2000/2003/XP or Macintosh with OS 10.3 ~10.4.

For Network Printing (CLP-300N only)

You can attach your printer to a network using an Ethernet cable (UTP cable with RJ.45 connector). The CLP-300N has a built-in network interface card.

- 1 Make sure that both the printer and the computer are turned off.
- 2 Plug one end of the Ethernet cable into the Ethernet network port on the rear of the printer.

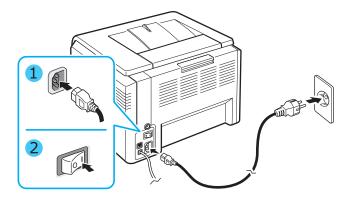


3 Plug the other end of the cable into a network LAN connection.

NOTE: After connecting the printer, you need to configure the network parameters using the software supplied with the printer. Refer to the Network Printer User's Guide.

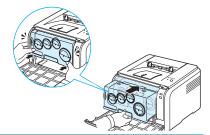
Turning the Printer On

- 1 Plug the power cord into the power receptacle on the rear of the printer.
- Plug the other end into a properly grounded AC outlet and turn on the power.





CAUTION: If there is a cracking sound, re-install the imaging unit. The imaging unit is not properly installed.





CAUTION:

- Some parts inside the printer may be hot when power is on, or after printing. Be careful not to burn yourself when working inside the printer.
- Do not disassemble the printer when it is turned on or plugged in. Doing so may give you an electric shock.

Note: Each LED blinks red in a repeated order. Wait for about 1.5 minutes for the printer to get ready.

Printing a Demo Page

Print a demo page to make sure that the printer is operating correctly.

To print a demo page:

In Ready mode, press and hold the **Stop** button for about 2 seconds.

Installing the Printer Software

You must install software using the supplied printer driver CD after you have set up your printer and connected it to your computer. For details, see the **Software Section**.

The printer driver CD provides you with the following software:

Programs for Windows

You can install the following printer software using the printer driver CD.

- Printer driver for Windows. Use this driver to take full advantage of your printer's features. See the Software Section for details about installing the Samsung printer driver.
- Smart Panel. Appears when printing errors occur. See the Software Section for details about installing the Smart Panel program.

Macintosh Printer Driver

You can print from a Macintosh with your printer. Go to the **Software Section** for information about installing the print software and printing from a Macintosh.

Linux Driver

You can print from a Linux-based computer with your printer. Go to the **Software Section** for information about installing the Linux driver and printing from a Linux environment.

System Requirements

Before you begin, ensure that your system meets the minimum requirements. Your printer supports the following operating system.

 Windows 98/Me/NT 4.0/2000/XP/2003 - The following table shows Windows requirements.

Item	Requirements		
Operating System	Windows 98/Me/NT 4.0/2000/XP/2003		
RAM	98/Me	32 MB	
	NT 4.0/2000	64 MB	
	XP	128 MB	
	2003	256 MB	
Free Disk Space	98/Me/NT 4.0/ 2000/XP/2003	300 MB	
Internet Explorer	5.0 or higher		

Notes:

- For Windows NT 4.0/2000/XP/2003, the system administrator should install the software.
- Windows NT 4.0 is only supported on the CLP-300N.
- Macintosh 10.3 ~10.4 For details, see the **Software Section**.
- Various Linux OS For details, see the **Software Section**.

Printer Driver Features

Your printer drivers will support the following standard options:

- · Paper source selection
- · Paper size, orientation, and media type
- · number of copies

The table below lists a general overview of features supported by your printer drivers.

	Printer driver		
Feature	Win98/Me/NT 4.0/2000/XP/ 2003	Linux	Macintosh (CUPS)
Color Mode	Y	Υ	Υ
Print Quality Option	Y	Υ	Υ
Poster Printing	Y	N	N
Manual Double- sided Printing	Υ	N	N
Multiple Pages Per Sheet (N-up)	Υ	Y	Υ
Fit to Page Printing	Y	N	N
Scale Printing	Y	N	Υ
Booklet Printing	Y	N	N
Watermark	Y	N	N
Overlay	Υ*	N	N

^{*} The Overlay feature is not supported in NT4.0.

NOTE: For details about installing software and using its features, see the **Software Section**.

3 Using Print Materials

This chapter describes the types of paper you can use with your printer and how to properly load paper in the tray for the best print quality.

This chapter includes:

- Choosing Paper and Other Materials
- · Verifying the Output Location
- Loading Paper
- Printing on Special Print Materials

Choosing Paper and Other Materials

You can print on a variety of print materials, such as plain paper, envelopes, labels, card stock, and so on. See "Printing on Special Print Materials" on page 3.3. To get the best possible print quality, use only high-quality, copier-grade paper.

When you choose print materials, consider the following:

- **Desired outcome**: The paper you choose should be appropriate for the project.
- **Size**: You can use any size paper that fits easily within the paper adjusters of the tray.
- Weight: Your printer supports paper weights as follows:
 - $-16\sim24$ lbs bond(60 ~90 g/m²) for the tray
 - -16~43 lbs bond(60~163 g/m²) for the manual feed
- **Brightness**: Some papers are whiter than others and produce sharper, more vibrant images.
- **Surface smoothness**: The smoothness of the paper affects how crisp the printing looks on the paper.



CAUTION: Using a material that does not conform to the specifications listed on page 8.3 can cause problems that may require service. This service will not be covered by the warranty or service agreements.

Type and Capacities

Paper Type	Capacity*
Plain paper	150
Envelopes**	1
Labels**	1
Transparency films**	1
Card stocks**	1

Maximum capacity may be reduced depending on the paper thickness.

Guidelines for Paper and Special Materials

When selecting or loading paper, envelopes, or other special materials, keep these guidelines in mind:

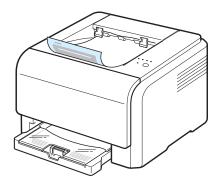
- Attempting to print on damp, curled, wrinkled, or torn paper can cause paper jams and poor print quality.
- Use cut-sheet paper only. You cannot use multi-part paper.
- Use only high-quality, copier grade paper for the best print quality.
- Do not use paper with irregularities, such as tabs or staples.
- Do not attempt to load the tray while printing, and never overfill the tray. This could cause a paper jam.
- Avoid paper with embossed lettering, perforations, or a texture that is too smooth or too rough.
- Colored paper should be of the same high quality as white photocopy paper. The pigments must be able to withstand the printer's fusing temperature of 180 °C (356 °F) for 0.1 seconds without deteriorating. Do not use paper with a colored coating that was added after the paper was produced.
- Preprinted forms must be printed with nonflammable, heatresistant ink that does not melt, vaporize, or release hazardous emissions when subjected to the printer's fusing temperature.
- Load special paper types one sheet at a time.
- Store paper in its ream wrapper until you are ready to use it. Place cartons on pallets or shelves, not on the floor.
- Do not place heavy objects on top of the paper, whether it is packaged or unpackaged.
- Keep paper away from moisture, direct sunlight, or other conditions that can cause it to wrinkle or curl.

Note: Do not use carbonless paper or tracing paper. These types of paper are unstable at the fusing temperature and can give off fumes, or cause damage to the printer.

^{**} If you load more than one sheet, paper jams will occur. You must load only one sheet at a time in the tray.

Verifying the Output Location

The printer has the output tray that collects paper face-down, in correct order.



Notes:

- If you continuously print many pages, the surface of the output tray may become hot. Be careful not to touch the surface, and especially keep children away from the surface.
- The output tray can hold up to 100 sheets of paper. Remove the pages so that the tray is not overloaded.

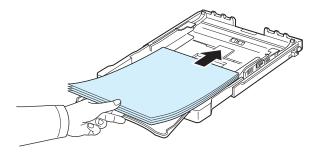
Loading Paper

Proper paper loading helps prevent paper jams and ensures trouble-free printing. Do not remove the tray while a job is printing. Doing so may cause a paper jam. See "Type and Capacities" on page 3.1 for acceptable paper capacities for tray.

Using the Tray

Tray can hold a maximum of 150 sheets of plain A4 or lettersized paper. It can also hold 1 sheet of special material, such as cards, envelopes, labels, and transparency.

To load paper, pull the tray and the load the paper with the print side up.



For details about loading paper in the tray, see "Loading Paper" on page 2.3.

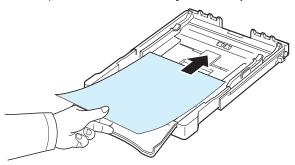
If you want to print on previously printed paper, the printed side should be facing up with the uncurled edge toward the printer. If you experience problems with the paper feeding, turn the paper around.

Using Manual Feed Mode

If you select **Manual Feed** in the Source option, you can manually load paper in the tray. Manually loading paper can be helpful when you want to check the print quality after each page is printed.

If you experience a paper jam from the tray, load one sheet of paper at a time into the tray.

1 Load the print material in the tray with the print side up.



Adjust the paper guide against the print material without bending the paper.

- When you print a document, you must select Manual Feed for Source from the software application, and then select the correct paper size and type. For details, see Software Section.
- 3 Press the **Stop** button on the printer to start feeding.

Note: If you do not press the button after a pause, the paper will be automatically fed into the printer.

- 4 Printing is started.
- If you are printing multiple pages, load the next sheet after the first page prints out, and press the Stop button.

Repeat this step for every page to be printed.

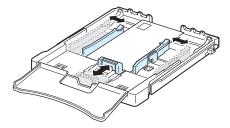
Printing on Special Print Materials

Printing on Envelopes

- Only use envelopes recommended for your printer. Before loading envelopes in the tray, make sure that they are undamaged and are not stuck together.
- · Do not feed stamped envelopes.
- Never use envelopes with clasps, snaps, windows, coated linings, or self-stick adhesives.

To print on envelope:

- 1 Squeeze the paper length guide and slide it out to its full length.
- 2 Load a sheet of envelope in the tray, with the flap side down. The end of the envelope with the stamp area enters the printer first.
- 3 Slide in the paper length guide until it lightly touches the end of the paper stack.
- 4 Slide the paper width guide to the edge of the envelope without causing it to bend.





CAUTION: If you print 20 envelopes in succession, the surface of the top cover may become hot. Please exercise caution.

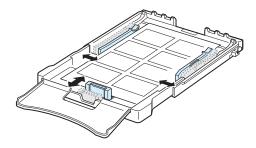
- When you print, set the paper source to **Manual Feed** and the paper type to **Envelope**, and select the appropriate size in the software application. For details, see the **Software Section**.
- **6** Press the **Stop** button on the printer to start feeding.

Printing on Labels

- Only use labels recommended for your printer.
- Verify that the labels' adhesive material can tolerate a fusing temperature of 180 °C (356 °F) for 0.1 seconds.
- Make sure that there is no exposed adhesive material between the labels. Exposed areas can cause labels to peel off during printing, which can cause paper jams. Exposed adhesive can also cause damage to printer components.
- Never print on the same sheet of labels more than once, or print on a partial sheet of labels.
- Do not use labels that are separating from the backing sheet or are wrinkled or damaged in any way.
- To prevent labels from sticking together, do not let the printed label sheets stack up as they are printed out.

To print on label:

- 1 Squeeze the paper length guide and slide it out to its full length.
- 2 Load a sheet of label in the tray, with the print side up and the top, short edge in first. Adjust the guides to fit the length and width of the label.



- 3 When you print, set the paper source to **Manual Feed** and the paper type to **Labels**, and select the appropriate size in the software application. For details, see the **Software Section**.
- 4 Press the **Stop** button on the printer to start feeding.

Printing on Transparencies

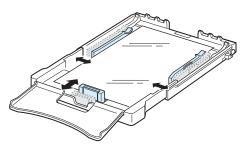
- Place them on a flat surface after removing them from the machine.
- Do not leave them in the tray for long periods of time. Dust and dirt may accumulate on them resulting in spotty printing.
- To avoid smudging caused by fingerprints, handle them and coated paper carefully.
- To avoid fading, do not expose the printed transparencies to prolonged sunlight.



CAUTION: It is not recommended to use paperbacked transparencies such as Xerox 3R91334, which can cause a jam or be scratched.

To print on transparency:

- 1 Squeeze the paper length guide and slide it out to its full length.
- 2 Load a sheet of transparency in the tray, with the print side up and the top, short edge in first. Adjust the guides to fit the length and width of the transparency.



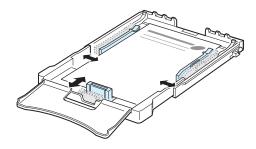
- **3** When you print, set the paper source to **Manual Feed** and the paper type to **Transparency**, and select the appropriate size in the software application. For details, see the **Software Section**.
- 4 Press the **Stop** button on the printer to start feeding.

Printing on Preprinted Paper

- Preprinted paper is paper that has some type of printing on it before it is sent through the printer (paper that has a preprinted logo at the top of the page, for example).
- Letterhead must be printed with heat-resistant ink that will not melt, vaporize, or release hazardous emissions when subjected to the printer's fusing temperature of 180 °C (356 °F) for 0.1 seconds.
- Ink on letterhead must be non-flammable and should not adversely affect printer rollers.
- Forms and letterhead should be sealed in moisture-proof wrapping to prevent changes during storage.
- Before you load preprinted paper, such as forms and letterhead, verify that the ink on the paper is dry. During the fusing process, wet ink can come off of preprinted paper, reducing the print quality.

To print on preprinted paper:

- 1 Squeeze the paper length guide and slide it out to its full length.
- 2 Load letterhead in the tray, with the print side up and the top and short edge first. Adjust the guides to fit the edge of the paper stack.



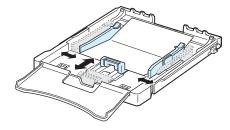
- When you print, set the paper source to **Manual Feed** and the paper type to **Preprinted**, and select the appropriate paper size in the software application. For details, see the **Software Section**.
- 4 Press the **Stop** button on the printer to start feeding.

Printing on Card Stock or Custom-sized Materials

- Postcards, 3in by 5in (index) cards, and other custom-sized materials can be printed with your printer. The minimum size is 3in by 5in (76mm by 127mm) and the maximum size is 8.5in by 14in (216mm by 356mm).
- Always insert the short edge into the tray first. If you want to print in landscape mode, make this selection using your software. Inserting these materials long edge first may cause a paper jam.
- Do not print on material smaller than 3in (76mm) wide or 5in (127mm) long.
- In the software application, set margins at least 4mm away from the edges of the material.

To print on card stock:

- 1 Squeeze the paper length guide and slide it out to its full length.
- 2 Load print material in the tray, with the print side up and the short edge first. Adjust the guides to fit the length and width of the material.



Note: If you experience jams with card stock feeding, turn the paper around and try again.

- **3** When you print, set the paper source to **Manual Feed** and select the appropriate size and type in the software application. For details, see the **Software Section**.
 - If the size of your print material is not listed in the **Size** box in the **Paper** tab, click the **Custom** button and set the size manually.
- 4 Press the **Stop** button on the printer to start feeding.

4 Basic Printing

This chapter explains common printing tasks.

- Printing a Document
- · Canceling a Print Job

Printing a Document

This printer allows you to print from various Windows applications, a Macintosh computer, or a Linux system. The exact steps for printing a document may vary depending on the application you use.

For details about printing, see the **Software Section**.

Canceling a Print Job

If the print job is waiting in a print queue or print spooler, such as the printer group in Windows, delete the job as follows:

- 1 Click the Windows **Start** button.
- 2 For Windows 98/NT 4.0/2000/Me, select **Settings** and then **Printers**.

For Windows XP/2003, select **Printers and Faxes**.

- 3 Double-click the Samsung CLP-300 Series icon.
- From the Document menu, select Cancel Printing (Windows 98/Me) or Cancel (Windows NT 4.0/2000/XP/ 2003).

NOTE: You can also access this window by simply doubleclicking the printer icon at the bottom right corner of the Windows desktop.

You can also cancel the current job by pressing the **Stop** button on the control panel of your printer.

Maintaining Your Printer

This chapter provides information for maintaining your printer and the toner cartridges.

This chapter includes:

- Printing a Configuration Page
- · Replacing Supplies
- · Managing Toner Cartridges
- Replacing Toner Cartridges
- · Replacing the Imaging Unit
- Replacing the Waste Toner Container
- Cleaning the Printer
- Managing the Printer from the Website (CLP-300N only)

Printing a Configuration Page

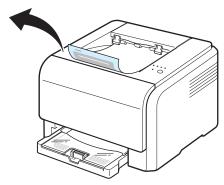
You can print a configuration page from the printer's control panel. Use the configuration page to view the current settings, to help troubleshoot problems.

To print a configuration page:

In Ready mode, press and hold the **Stop** button on the control panel for about 5 seconds.

A configuration page prints out.





Replacing Supplies

From time to time, you need to replace the following items to maintain top performance and to avoid print quality problems resulting from worn parts.

The following items should be replaced after you have printed the specified number of pages or when the life span of each item has expired. The Smart Panel program window will appear on the computer, indicating which item needs to be replaced. See below.

Item(s)	Pages Printed	Part number	See Page
Black toner cartridge	Approx. 2,000 pages*	CLP-K300A	5.3
Color toner cartridges	Approx. 1,000 pages*	CLP-C300A: Cyan CLP-M300A: Magenta CLP-Y300A: Yellow	5.3
Imaging unit	Approx. 20,000 black pages or approx. 12,500 color pages	CLP-R300A	5.4
Waste toner container	Approx. 5,000 images** or Approx. 1,250 pages (fulll color 5% image)	CLP-W300A	5.6
Pick-up roller	Approx. 50,000 pages	Contact a service representative	
Fuser unit	Approx. 100,000 black pages or 50,000 color pages	тергезептануе	
T2 roller	Approx. 100,000 pages		
ITB	Approx. 60,000 black pages or 15,000 color pages		

^{*} Average A4-/letter-sized page count based on 5% coverage of individual colors on each page. Usage conditions and print patterns may cause results to vary.

To purchase replacement parts, contact your Samsung dealer or the retailer where you bought your printer. We strongly recommend that items be installed by a trained service professional, except for the toner cartridges (see 5.3), the imaging unit (see 5.4), and the waste toner container (see 5.6).

If you use refilled toner cartridges, print quality may be reduced.

^{*}Image counts based on one color on each page. If you print documents in full color (Cyan, Magenta, Yellow, Black), the life of this item will be reduced by 25%.

Managing Toner Cartridges

Toner Cartridge Storage

To get the maximum results from a toner cartridge, keep the following guidelines in mind:

- Do not remove toner cartridges from their packages until you are ready to use them.
- Do not refill toner cartridges. The printer warranty does not cover damage caused by using a refilled cartridge.
- Store toner cartridges in the same environment as the printer.
- To prevent damage to toner cartridges, do not expose them to light for more than a few minutes.

Toner Cartridge Life Expectancy

The life of a toner cartridge depends on the amount of toner that your print jobs require. When printing text at 5% coverage, the toner cartridges last an average of 2,000 pages for black and white printing and 1,000 pages for each color printing. However, the toner cartridge that is shipped with the printer prints 1,500 pages for black and white, 700 pages for colors.

Redistributing Toner

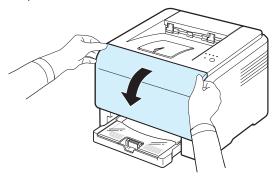
When a toner cartridge is low on toner, faded or light areas may appear. It is also possible that colored images may be printed with incorrect colors due to flawed mixing of toner colors when one of the colored toner cartridges is low on toner. The Smart Panel program window appears on the computer telling you which color cartridge is low on toner. Also, when the toner LED, on the control panel, indicating each individual toner cartridge according to its color, blinks, the toner cartridge is low.

The printer is able to continue to print using the current toner cartridge until the Smart Panel program window appears on the computer telling you to replace the cartridge.

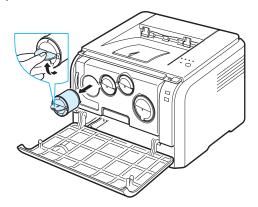
You may be able to temporarily improve print quality by redistributing the toner.

To redistribute the toner:

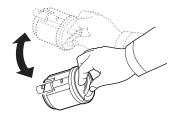
1 Open the front cover.



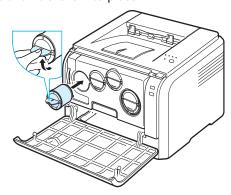
2 Pull the corresponding toner cartridge out to remove from the printer.



3 Holding the toner cartridge, shake thoroughly it from side to side to redistribute the toner.

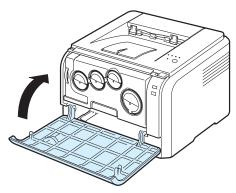


4 Grasp the toner cartridge and align it with the corresponding slot inside the printer. Insert it back into its slot until it clicks into place.



Note: If toner gets on your clothing, wipe it off with a dry cloth and wash it in cold water. Hot water sets toner into fabric.

5 Close the front cover. Make sure that the cover is securely closed.



Replacing Toner Cartridges

The printer uses four colors and has a different toner cartridge for each one: yellow (Y), magenta (M), cyan (C), and black (K).

When the Toner LED, on the control panel, indicating each individual toner cartridge according to its color, lights, and the **Status** LED lights red, the toner cartridge is totally exhausted. Your printer stops printing.

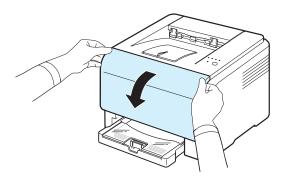
Also, the Smart Panel program window appears on the computer telling you to replace the cartridge.

Note: The print quality may get poor if the refilled toner cartridge is installed, since its characteristics may significantly differ from the genuine.

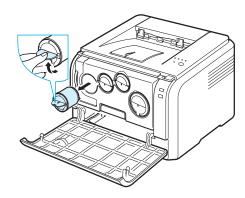
To replace the toner cartridge:

1 Turn the printer off, then wait a few minutes for the printer to cool.

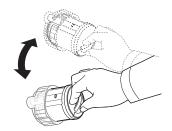
2 Open the front cover.



3 Pull the corresponding toner cartridge out to remove from the printer.



- 4 Take a new toner cartridge out of its package.
- 5 Holding the toner cartridge, shake thoroughly it from side to side to distribute the toner.

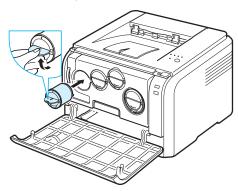


6 Remove the cartridge cap.

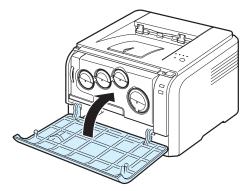


Note: If toner gets on your clothing, wipe it off with a dry cloth and wash it in cold water. Hot water sets toner into fabric.

7 Grasp the toner cartridge and align it with the corresponding slot inside the printer. Insert it into its slot until it clicks into place.



8 Close the front cover. Make sure that the cover is securely latched, and then turn the printer on.





CAUTION: If the front cover is not completely closed, the printer will not operate.

Notes:

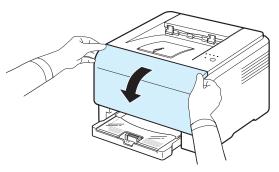
- Each LED blinks red in a repeated order. Wait for about 1.5 minutes for the printer to get ready.
- When printing text at 5% coverage, you can expect a toner cartridge life of about 2,000 pages for black and white printing and 1,000 pages for color printing. However, the toner cartridge that is shipped with the printer prints 1,500 pages for black and white, 700 pages for colors.

Replacing the Imaging Unit

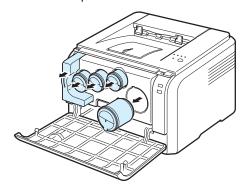
The life of the imaging unit is approximately 20,000 pages for black or 12,500 pages for color. When the life span of the imaging unit has expired, the Smart Panel program window appears on the computer, indicating the imaging unit needs to be replaced. Otherwise your printer stops printing.

To replace the imaging unit:

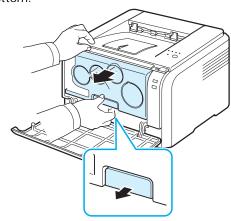
- 1 Turn the printer off, then wait a few minutes for the printer to cool.
- 2 Open the front cover.



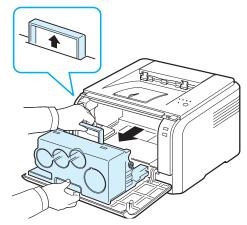
3 Remove all of the toner cartridges and waste toner container from the printer.



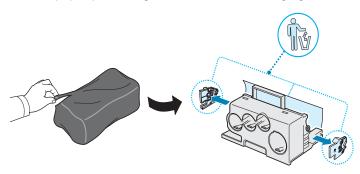
4 Pull the imaging unit out of the printer using the handle on its bottom.



5 Extend the top handle on the imaging unit and then use it to pull the imaging unit out of the printer completely.



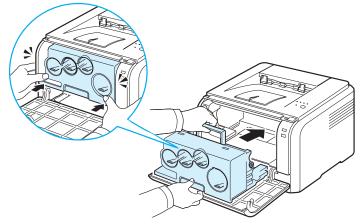
6 Take a new imaging unit out of its package. Remove the protective devices on both sides of the imaging unit and the paper protecting the surface of the imaging unit.



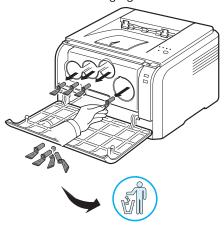


CAUTION:

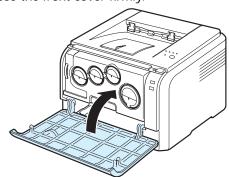
- Don't use sharp objects, such as a knife or scissors, to open the imaging unit package. You could damage the surface of the imaging unit.
- Be careful not to scratch the surface of the imaging unit.
- To prevent damage, do not expose the imaging unit to light for more than a few minutes. Cover it with a piece of paper to protect it if necessary.
- **7** Holding the handles on the new imaging unit, push the imaging unit until it sounds 'click' in to the printer.



8 Remove four dummy caps which are on the toner cartridge entrances of the imaging unit.



- 9 Insert the toner cartridges and waste toner container into their corresponding slots until they click into place.
- 10 Close the front cover firmly.



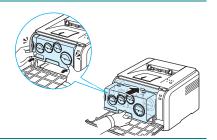


CAUTION: If the front cover is not completely closed, the printer will not operate.

11 Turn the printer on.



CAUTION: If there is a cracking sound, re-install the imaging unit. The imaging unit is not properly installed.



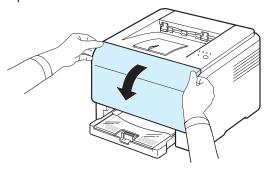
Note: Each LED blinks red in a repeated order. Wait for about 1.5 minutes for the printer to get ready.

Replacing the Waste Toner Container

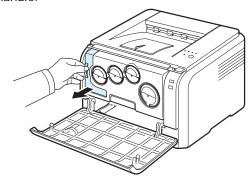
The life of the waste toner container unit is approximately 1,250 pages for full color 5% image or 5,000 pages for black. When the life span of the waste toner container has expired, the Smart Panel program window appears on the computer, indicating the waste toner container needs to be replaced. Otherwise your printer stops printing.

To replace the waste toner container:

- 1 Turn the printer off, then wait a few minutes for the printer to cool.
- 2 Open the front cover.



3 Pull the waste toner container out of the printer using its handle.



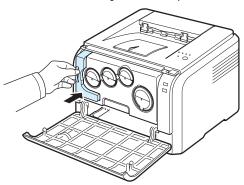
NOTE: Make sure that you lay the waste toner container on a flat surface so that the toner does not spill.

4 Remove the container's cap from the container as shown below, and use it to close the waste toner container opening.

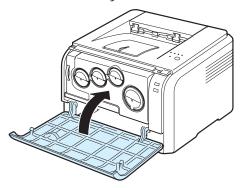


CAUTION: Do not tilt or turn over the container.

- Take a new waste toner container out of its package.
- 6 Insert the new container into position and then push it to make sure that it is firmly seated in place.



7 Close the front cover firmly.





CAUTION: If the front cover is not completely closed, the printer will not operate.

8 Turn the printer on.

Cleaning the Printer

During the printing process, particles of paper, toner, and dust can accumulate inside the printer. Over time, this build-up can cause print quality problems such as toner specks or smearing. Your printer has a cleaning mode that can correct and prevent these types of problems.

Cleaning the Outside of the Printer

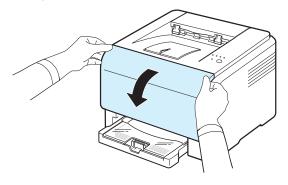
Clean the printer cabinet with a soft lint-free cloth. You can dampen the cloth slightly with water, but be careful not to let any water drip onto the printer or inside of it.



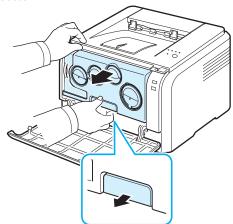
CAUTION: Cleaning the printer cabinet with cleaners containing large amounts of alcohol, solvents, or other strong substances can discolor or crack the cabinet.

Cleaning the Inside of the Printer

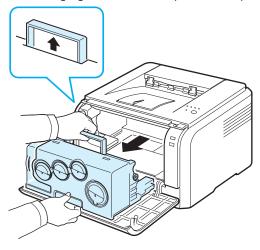
- 1 Turn the printer off and unplug the power cord, then wait a few minutes for the printer to cool.
- 2 Open the front cover.



3 Pull the imaging unit out of the printer using the handle on its bottom.



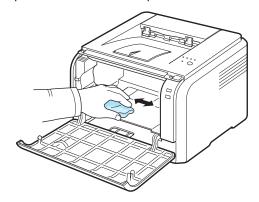
Extend the top handle on the imaging unit and then use it to pull the imaging unit out of the printer completely.





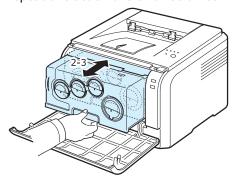
CAUTION:

- Do not touch the green surface on the imaging unit with your hands or any other material. Use the handle on it in order to avoid touching this area.
- Be careful not to scratch the surface of the imaging unit.
- To prevent damage, do not expose the imaging unit to light for more than a few minutes. Cover it with a piece of paper to protect it if necessary.
- 5 Look inside the printer. Remove any dust, paper particles, and spilled toner with a damp, soft lint-free cloth.

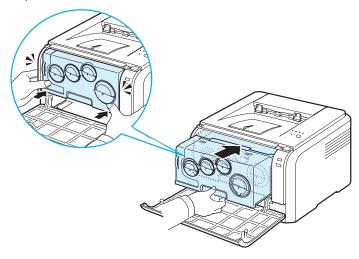


Note: After cleaning, let the printer to dry completely.

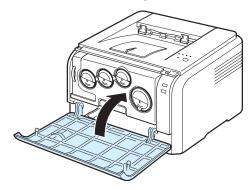
6 Pull the imaging unit about half and push it until it sounds 'click'. Repeat this action two or three times.



Push the imaging unit until it sounds 'click' in to the printer.



8 Close the front cover firmly.



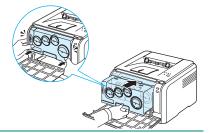


CAUTION: If the front cover is not completely closed, the printer will not operate.

9 Plug the power cord in and turn the printer on.



CAUTION: If there is a cracking sound, re-install the imaging unit. The imaging unit is not properly installed.



Managing the Printer from the Website (CLP-300N only)

If you have connected your printer to a network and set up TCP/IP network parameters correctly, you can manage the printer via **SyncThru Web Service**, web-based service embedded to your printer. Use **SyncThru Web Service** to:

- View the printer's device information and check its current status.
- · Set up network parameters.
- Change the print properties.
- Set the printer to send email notification to let you know the printer's status.
- Get support for using the printer.

To access SyncThru Web Service:

- 1 Start a web browser, such as Internet Explorer from Windows.
- 2 Enter the printer's IP address (http://xxx.xxx.xxx.xxx) in the address field and press the **Enter** key or click **Go**.

Your printer's embedded web page opens.

6

Solving Problems

This chapter provides helpful information for what to do if you encounter an error while using your printer.

This chapter includes:

- Troubleshooting Checklist
- · Solving General Printing Problems
- Clearing Paper Jams
- Solving Print Quality Problems
- Troubleshooting Error Messages
- · Common Windows Problems
- · Common Macintosh Problems
- · Common Linux Problems

Troubleshooting Checklist

If the printer is not working properly, consult the following checklist. If the printer does not pass a step, follow the corresponding troubleshooting suggestions.

Status	Response
Make sure that the Status LED on the control panel green and "Ready" is shown on the Smart Panel program window.	 If the Status LED is off, check the power cord connection. Check the power switch. Check the power source by plugging the power cord into another outlet. If the Status LED blinks or lights red, solve the problems. See "Troubleshooting Error Messages" on page 6.8 or, contact your service representative.
Print a demo page to verify that the printer is feeding paper correctly. See 2.7.	 If a demo page does not print, check the paper supply in the tray. If the paper jams in the printer, go to "Clearing Paper Jams" on page 6.3.
Check the demo page to see if it is printed correctly.	If there is a print quality problem, go to "Solving Print Quality Problems" on page 6.5.
Print a short document from a software application to verify that the computer and printer are connected and communicating correctly.	 If the page does not print, check the cable connection between the printer and the computer. Check the print queue or print spooler to see if the printer has been paused. Check the software application to ensure that you are using the proper printer driver and communication port. If the page is interrupted during printing, go to "Solving General Printing Problems" on page 6.2.
If completing the checklist does not resolve the printer problem, check the following troubleshooting sections.	 See "Solving General Printing Problems" on page 6.2. See "Solving Print Quality Problems" on page 6.5. See "Common Windows Problems" on page 6.8. See "Common Macintosh Problems" on page 6.9. See "Common Linux Problems" on page 6.9.

Solving General Printing Problems

For problems with the operation of your printer, refer to the table for suggested solutions.

Problem	Possible Cause	Solution
The printer does not print.	The printer is not receiving power.	Check the power cord connections. Check the power switch and the power source.
	The printer is not selected as the default printer.	Select Samsung CLP-300 Series as your default printer.
	Check the printer for the following:	After locating the problem, clear it. If a printer system error occurs, contact your service representative.
	The printer cover is not closed.	Close the printer cover.
	Paper is jammed.	Clear the paper jam. See 6.3.
	No paper is loaded.	Load paper. See 2.3.
	A toner cartridge is not installed.	• Install the toner cartridge. See 5.3.
	The printer may be in manual feed mode and out of paper.	Check the message on the Smart Panel program window, add paper to the tray and press the Stop button on the control panel.
	The connection cable between the computer and the printer is not connected properly.	Disconnect the printer cable and reconnect it.
	The connection cable between the computer and the printer is defective.	If possible, attach the cable to another computer that is working properly and try to print a document. You can also try using a different printer cable.
	The port setting is incorrect.	Check the Windows printer setting to make sure that the print job is sent to the correct port. If the computer has more than one port, make sure that the printer is attached to the correct one.
	The printer may be configured incorrectly.	Check the printer properties to ensure that all of the print settings are correct.

Problem	Possible Cause	Solution
The printer does not print. (continued)	The printer driver may be incorrectly installed.	Reinstall the printer driver; see the Software Section . Try printing a test page.
	The printer is malfunctioning.	Check the LEDs on the control panel to determine if the printer is indicating a system error.
	The document size is so big that the hard disk space of the computer is not enough to access the print job.	Get more hard disk space and print the document again.
Paper does not feed into the printer.	Paper has been loaded incorrectly.	Remove paper from the tray and reload it correctly. Check that the paper guides are set correctly.
	There is too much paper in the tray.	Remove excess paper from the tray.
	The paper is too thick.	Use only paper that meets printer specifications.
A print job is extremely slow.	The job may be very complex.	Reduce the complexity of the page(s) or try adjusting the print quality settings. Adjust the print quality settings, such as reducing the resolution. If you have set the resolution to Best , change it to Normal or Draft . See the Software section . Your printer prints A4-sized paper at 16 ppm in black and white mode and 4 ppm in color mode.
	You may have printed a high density document which consumes a lot of toner.	It usually takes more time than usual to print this kind of job. Be patient and wait.
	If using Windows 98/ Me, the Spooling Setting may be set incorrectly.	From the Start menu, choose Settings and Printers. Right-click the Samsung CLP-300 Series printer icon, choose Properties, click the Details tab, and then choose the Spool Settings button. Select the desired spool setting.

Problem	Possible Cause	Solution
Half the page is blank.	The page orientation setting may be incorrect.	Change the page orientation in your application. For details, see the Software Section .
	The paper size and the paper size settings do not match.	Ensure that the paper size in the printer driver settings matches the paper in the tray. Or, ensure that the paper size in the printer driver settings matches the paper selection in the software application settings you use.
The paper keeps jamming.	There is too much paper in the tray.	Remove excess paper from the tray. Check that the paper guides are set correctly.
	An incorrect type of paper is being used.	Use only paper that meets printer specifications.
	There may be debris inside the printer.	After opening the front cover, remove the imaging unit and then clear the debris.
The printer prints, but the text is wrong, garbled, or incomplete.	The printer cable is loose or defective.	Disconnect and reconnect the printer cable. Try a print job that you have already printed successfully. If possible, attach the cable and printer to another computer and try a print job that you know works. Finally, try a new printer cable.
	The wrong printer driver was selected.	Check the application's printer selection menu to ensure that your printer is selected.
	The software application is malfunctioning.	Try printing a job from another application.
	The operating system is malfunctioning.	Exit Windows and reboot the computer. Turn the printer off and then back on again.
Pages print, but are blank.	The toner cartridge is defective or out of toner.	Redistribute the toner. See page 5.2. If necessary, replace the toner cartridge.
	The file may have blank pages.	Check the file to ensure that it does not contain blank pages.
	Some parts in the printer may be defective.	Contact a service representative.

Problem	Possible Cause	Solution
When you are using Windows 98, the illustrations print incorrectly from Adobe Illustrator.	The setting in the software application is wrong.	Select Download as Bit Image in the Advanced Options window of the graphic properties window. Print the document again.
The print quality of photos is not	The resolution is set to Normal or Draft .	Change the resolution to Best and then try printing again.
good. Images are not clear.	The resolution of the photo is very low.	If you increase the photo size in the software application, the resolution will be reduced. Reduce the photo size.
Your printer has an odd smell during initial use.	The oil used to protect the fuser is evaporating.	After printing about 100 color pages, there will be no more smell. It is a temporary issue.

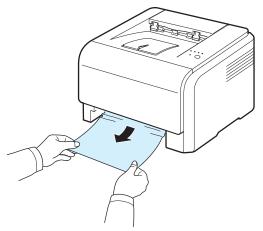
Clearing Paper Jams

Note: When removing paper that is jammed in the printer, if possible always pull the paper in the direction that it normally moves so as not to damage internal components. Always pull firmly and evenly; do not jerk the paper. If the paper tears, ensure that all fragments of paper are removed; otherwise a jam will occur again.

If a paper jam occurs, the Status LED on the control panel lights red. Find and remove the jammed paper.

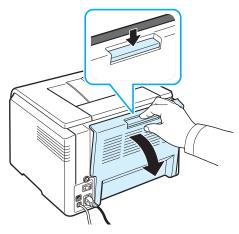
To resume printing after clearing paper jams, you must open and close the front cover or rear cover.

1 Pull the tray out of the printer and remove the jammed paper.

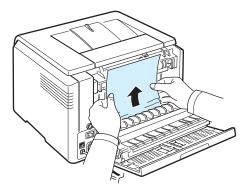


If you cannot find the jammed paper, go to the next step.

2 To remove the jammed paper, open the rear cover.



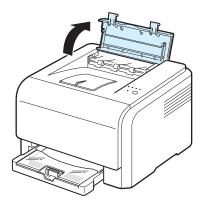
3 Carefully remove the paper by pulling in the direction as shown below. Most of the jammed paper can be removed in this step.



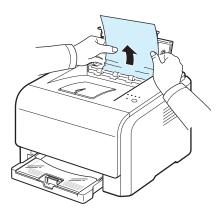
If you cannot find the jammed paper, or if there is any resistance removing the paper, stop pulling and go to the next step.

NOTE: If the paper tears, make sure that all of the paper fragments are removed from the printer.

4 Close the rear cover and then open the top cover.



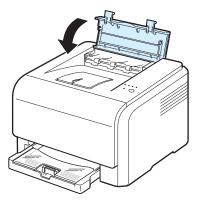
5 Holding the inner cover open, carefully take the jammed paper out of the printer. The inner cover will then close automatically.





CAUTION: Do not touch the fuser inside the inner cover. It is hot and could cause burns! The fuser's operating temperature is 180 °C (356 °F). Take care when removing paper from the printer.

6 Close the top cover. Make sure that it is securely closed.



7 Open and then close the rear cover or front cover to resume printing.

Tips for Avoiding Paper Jams

By selecting the correct paper types, most paper jams can be avoided. If a paper jam occurs, follow the steps outlined in "Clearing Paper Jams" on page 6.3.

- Follow the procedures on page 3.2. Ensure that the adjustable guides are positioned correctly.
- · Do not overload the tray.
- Do not remove the paper from the tray while printing.
- Flex, fan, and straighten the paper before loading.
- Do not use creased, damp, or highly curled paper.
- Do not mix paper types in a tray.
- Use only recommended print materials. See "Paper Specifications" on page 8.1.
- Ensure that the recommended print side of print materials is facing up in the tray.

Solving Print Quality Problems

Dirt inside of the printer or improper paper loading may reduce print quality. See the table below to troubleshoot problems.

Problem	Solution
AaBbCc AaBbCc AaBbCc AaBbCc AaBbCc AaBbCc AaBbCc	 If a vertical white streak or faded area appears on the page: The toner supply is low. You may be able to temporarily extend the toner cartridge life. See "Redistributing Toner" on page 5.2. If this does not improve print quality, install a new toner cartridge. The paper may not meet paper specifications (for example, the paper is too moist or too rough). See "Paper Specifications" on page 8.1. A combination of faded or smeared defects may indicate that the printer needs cleaning. See page 5.7.
AaBbCc AaBbCc AaBbCc AaBbCc AaBbCc	The paper may not meet specifications (for example, the paper is too moist or too rough). See "Paper Specifications" on page 8.1.
AaBbCc AaBbCc AaBbCc AaBbCc AaBbCc	 If generally rounded, faded areas occur randomly on the page: A single sheet of paper may be defective. Try reprinting the job. The moisture content of the paper is uneven or the paper has moist spots on its surface. Try a different brand of paper. See "Paper Specifications" on page 8.1. The paper lot is bad. The manufacturing process can cause some areas to reject toner. Try a different kind or brand of paper. The toner cartridge may be defective. See "Vertical repetitive defects" on the next page. Change the printer option and try again. Go to printer properties, click Paper tab, and set paper type to Thick. Refer to the Software Section for details. If these steps do not correct the problems, contact a service representative.

Problem	Solution
AaBbCc AaBbCc AaBbCc AaBbCc AaBbCc AaBbCc	 If black vertical streaks appear on the page: A imaging unit has probably been scratched. Remove the imaging unit and install a new one. See page 5.3. If white vertical lines appear on the page: Clean the inside of the printer. See "Cleaning the Inside of the Printer" on page 5.7. If you still have the same problems, replace the imaging unit with a new one. See page 5.3.
Color or Black background AaBbCc AaBbCc AaBbCc AaBbCc AaBbCc	 If the amount of background shading becomes unacceptable, the procedures below may fix the problem. Change to lighter weight paper. See "Paper Specifications" on page 8.1. Check the printer's environment; very dry (low humidity) or high humidity (higher than 80% RH) conditions can increase the amount of background shading. Remove one of the old toner cartridges and install a new one.
AaBbCc AaBbCc AaBbCc AaBbCc AaBbCc AaBbCc	 Clean the inside of the printer. See "Cleaning the Inside of the Printer" on page 5.7 Check the paper type and quality. See "Paper Specifications" on page 8.1. Remove the imaging unit and install a new one. See "Replacing the Imaging Unit" on page 5.4.
Vertical repetitive defects AaBbCc AaBbCc AaBbCc AaBbCc AaBbCc AaBbCc	 If marks repeatedly appear on the printed side of the page at even intervals: Clean the inside of the printer. See "Cleaning the Inside of the Printer" on page 5.7. After cleaning the inside of the printer, if you still have the same problems, install a new toner cartridge of the problem color. See "Replacing Toner Cartridges" on page 5.3. Parts of the printer may have toner on them. If the defects occur on the back of the page, the problem will likely correct itself after a few more pages. The fusing assembly may be damaged. Contact a service representative.

Problem	Solution
Background scatter	Background scatter results from bits of toner distributed on the printed page. • The paper may be too damp. Try printing with a different batch of paper. Do not open packages of paper until necessary so that the paper does not absorb too much moisture. • If background scatter occurs on an envelope, change the printing layout to avoid printing over areas that have overlapping seams on the reverse side. Printing on seams can cause problems. • If background scatter covers the entire surface area of a printed page, adjust the print resolution through your software application or via the printer properties window.
Misformed characters AaBbCc AaBbCc AaBbCc AaBbCc AaBbCc AaBbCc AaBbCc	 If characters are improperly formed and producing hollowed images, the paper stock may be too slick. Try a different paper. See "Paper Specifications" on page 8.1. If characters are improperly formed and producing a wavy effect, the printer may need service. Verify that it also occurs on a demo page. See page 2.7. For service, contact a service representative.
AaBbCc AaBbCc AaBbCc AaBbCc AaBbCc AaBbCc	 Ensure that the paper is loaded properly. Check the paper type and quality. See "Paper Specifications" on page 8.1. Ensure that the paper or other material is loaded correctly and the guides are not too tight or too loose against the paper stack.
Curl or wave AaBbCC AaBbCC AaBbCC AaBbCC AaBbCC AaBbCC	 Ensure that the paper is loaded properly. Check the paper type and quality. Both high temperature and high humidity can cause paper curl. See "Paper Specifications" on page 8.1. Turn the stack of paper over in the tray. Also try rotating the paper 180° in the tray.
Wrinkles or creases AabbCc AabbCc AabbCc AabbCc AabbCc AabbCc AabbCc	 Ensure that the paper is loaded properly. Check the paper type and quality. See "Paper Specifications" on page 8.1. Turn the stack of paper over in the tray. Also try rotating the paper 180° in the tray.

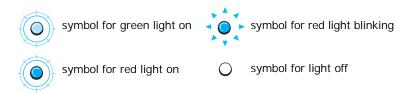
Problem	Solution
Back of printouts are dirty	Check for leaking toner. Clean the inside of the printer. See "Cleaning the Inside of the Printer" on page 5.7.
AaBbCc AaBbCc AaBbCc AaBbCc	
Solid Color or Black pages	 The toner cartridge may not be installed properly. Remove the toner cartridge and reinsert. The toner cartridge may be defective and need replacing. Install a new toner cartridge. The printer may require repair. Contact a service representative.
AaBbCc AaBbCc AaBbCc AaBbCc AabCc AabCc AabCc	 Clean the inside of the printer. Check the paper type and quality. See "Paper Specifications" on page 8.1. Install a new toner cartridge. See "Replacing Toner Cartridges" on page 5.3. If the problem persists, the printer may require repair. Contact a service representative.
Character Voids	 Character voids are white areas within characters that should be solid black: You may be printing on the wrong surface of the paper. Remove the paper and turn it over. The paper may not meet paper specifications. See
Horizontal	page 8.1. If horizontally aligned color or black streaks or
AaBbCc AaBbCc AaBbCc AaBbCc AaBbCc	 smears appear: A toner cartridge may be installed improperly. Remove the toner cartridge and reinsert. A toner cartridge may be defective. Install a new toner cartridge. If the problem persists, the printer may require repair. Contact a service representative.

Problem	Solution
AaBbCc AaBbCc AaBbCc	 If the printed paper is curled or paper does not feed into the printer: Turn the stack of paper over in the tray. Also try rotating the paper 180° in the tray. Change the printer option and try again. Go to printer properties, click Paper tab, and set paper type to Thin. Refer to the Software Section for details.
An unknown image repetitively appears on a next few sheets or loose toner, light print, or contamination occurs.	Your printer is probably being used at an altitude of 2,500 m (8,200 ft) or above. The high altitude may affect the print quality such as loose toner or light imaging. You can set this option through Printer Settings Utility or Printer tab in printer driver's properties. Refer to the Software Section for details.

Troubleshooting Error Messages

When the printer experiences an error, the control panel will indicate an error message with the indicator lights and the Smart Panel program window will display to show the printer's status or errors. Find the light pattern below that matches the printer light pattern and follow the solutions to clear the error.

LED status legend



LED pattern	Possible Problem and Solution
Status	When the LED is blinking, the corresponding toner cartridge is low. Order a new toner cartridge. You can temporarily improve print quality by redistributing the toner. See "Redistributing Toner" on page 5.2
Status	When the LED is lit, the corresponding toner cartridge is almost empty. Remove the old toner cartridge and install a new one. See "Replacing Toner Cartridges" on page 5.3
Status	When the LED is lit, the corresponding toner cartridge is totally exhausted. Remove the old toner cartridge and install a new one. See "Replacing Toner Cartridges" on page 5.3 The lighting toner cartridge is wrong. Only install a Samsung toner cartridge, designed for your printer.
Status	 A paper jam has occurred. To solve the problem, see "Clearing Paper Jams" on page 6.3. The front or top cover is opened. Close the front or top cover. There is no paper in the tray. Load paper in the tray. The waste toner container is not installated or full. Check the container. Your system has some problems. If this problem occurs, contact your service representative.

Common Windows Problems

Problem	Possible Cause and Solution
"File in Use" message appears during installation.	Exit all software applications. Remove all software from the StartUp Group, then restart Windows. Reinstall the printer driver.
"General Protection Fault", "Exception OE", "Spool32", or "Illegal Operation" messages appear.	Close all other applications, reboot Windows and try printing again.
"Fail To Print", "A printer timeout error occurred." messages appear.	These messages may appear during printing. Just keep waiting until the printer finishes printing. If the message appears in standby mode or after printing has been completed, check the connection and/or whether an error has occurred.
The printer does not print PDF file correctly. Some parts of graphics, text, or illustrations are missing.	Incompatibility between the PDF file and the Acrobat products: Printing the PDF file as an image may solve this problem. Turn on Print As Image from the Acrobat printing options. Note: It will take longer to print when you print a PDF file as an image.

Note: Refer to the Microsoft Windows 98/Me/NT 4.0/2000/2003/XP User's Guide that came with your PC for further information on Windows error messages.

Common Macintosh Problems

Problem	Possible Cause and Solution
The printer does not print PDF file correctly. Some parts of graphics, text, or illustrations are missing.	Incompatibility between the PDF file and the Acrobat products: Printing the PDF file as an image may solve this problem. Turn on Print As Image from the Acrobat printing options. Note: It will take longer to print when you print a PDF file as an image.
The document has printed, but the print job has not disappeared from the spooler in Mac OS 10.3.2.	Update your Mac OS to OS 10.3.3 or higher.
Some letters are not displayed normally during the Cover page printing.	This problem is caused because Mac OS can not create the font during the Cover page printing. English alphabet and numbers are displayed normally at the Cover page.

Common Linux Problems

Problem	Possible Cause and Solution
I can't change settings in the configuration tool.	You need to have administrator privileges to be able to change global settings.
I am using the KDE desktop but the configuration tool and LLPR won't start.	You may not have the GTK libraries installed. These usually come with most Linux distributions, but you may have to install them manually. Refer to your distribution's installation manual for more details about installing additional packages.
I just installed this package but can't find entries in the KDE/ Gnome menus.	Some versions of the KDE or GNOME desktop environments may require that you restart your session for the changes to take effect.
I get a "Some options are not selected" error message while editing the printer settings.	Some printers have conflicting settings, meaning that some settings for two options can't be selected at the same time. When you change a setting and the Printer Package detects such a conflict, the conflicting option is changed to a "No Choice" value. You have to choose an option that does not conflict before being able to submit the changes.
I can't make a printer the system default.	In some conditions, it may not be possible to change the default queue. This happens with some variants of LPRng, especially on recent RedHat systems that use the "printconf" database of queues.
	When using printconf, the /etc./printcap file is automatically refreshed from the database of printers managed by the system (usually through the "printtool" command), and the queues in /etc./printcap.local are appended to the resulting file. The default queue in LPRng is defined as the first queue in /etc./printcap, and therefore it is not possible for the Linux Printer Package to change the default when some queues have otherwise been defined using printtool.
	LPD systems identify the default queue as the one named "Ip". Thus, if there is already a queue by this name, and if it doesn't have an alias, then you won't be able to change the default. To work around this, you can either delete the queue or rename it by manually editing the /etc./printcap file.
The N-up setting does not work correctly for some of my documents.	The N-up feature is achieved through post-processing of the PostScript data that is sent to the printing system. However, such post-processing can only be adequately achieved if the PostScript data conforms to the Adobe Document Structing Conventions. Problems may arise when using N-up and other features that rely on post-processing if the document being printed isn't compliant.

Problem	Possible Cause and Solution
I am using BSD Ipr (Slackware, Debian, older distributions) and some options chosen in LLPR don't seem to take effect.	Legacy BSD Ipr systems have a hard limitation on the length of the option string that can be passed to the printing system. As such, if you selected a number of different options, you may have exceeded the length of the options and some of your choices won't be passed to the programs responsible for implementing them. Try to select fewer options that deviate from the defaults, to save on memory usage.
I am trying to print a document in Landscape mode, but it prints rotated and cropped.	Most Unix applications that offer a Landscape orientation option in their printing options will generate correct PostScript code that should be printed as is. In that case, you need to make sure that you leave the LLPR option set to its default Portrait setting, to avoid unwanted rotations of the page that would result in cropped output.
Some pages come out all white (nothing is printed), and I am using CUPS.	If the data being sent is in Encapsulated PostScript (EPS) format, some earlier versions of CUPS (1.1.10 and before) have a bug preventing them from being processed correctly. When going through LLPR to print, the Printer Package will work around this issue by converting the data to regular PostScript. However, if your application bypasses LLPR and feeds EPS data to CUPS, the document may not print correctly.
I can't print to an SMB (Windows) printer.	To be able to configure and use SMB-shared printers (such as printers shared on a Windows printer), you need to have a correct installation of the SAMBA package that enables that feature. The "smbclient" command should be available and usable on your system.
My application seems to be frozen while LLPR is running.	Most Unix applications will expect a command like the regular "Ipr" command to be non-interactive and thus return immediately. Since LLPR is waiting for user input before passing the job on to the print spooler, very often the application will wait for the process to return, and thus will appear to be frozen (its windows won't refresh). This is normal and the application should resume functioning correctly after the user exits LLPR.
How do I specify the IP address of my SMB server?	It can be specified in the "Add Printer" dialogue of the configuration tool, if you don't use the CUPS printing system. Unfortunately, CUPS currently doesn't allow you to specify the IP address of SMB printers, so you will have to be able to browse the resource with SAMBA in order to be able to print.
Some documents come out as white pages when printing.	Some versions of CUPS, especially those shipped with Mandrake Linux before the 8.1 release, have some known bugs when processing PostScript output from some applications. Try upgrading to the latest version of CUPS (at least 1.1.14). Some RPM packages for the most popular distributions are provided as a convenience with this Linux Printing Package.

Problem	Possible Cause and Solution	
I have CUPS and some options (such as N-up) seem to be always enabled even though I don't choose them in LLPR.	There may be some local options defined in your ~/ .lpoptions file, which are manipulated by the lpoptions command. These options are always used if not overridden by LLPR settings. To get rid of all options for a printer, run the following command, replacing "printer" with the name of the queue: lpoptions -x printer	
I configured a printer to print to a file, but I get "Permission denied" errors.	Most printing systems will not run as the super-user but as a special user (usually "Ip"). Therefore, make sure that the file you have chosen to print to is accessible to the user owning the spooler daemon.	
On my PCL (or GDI) printer, I sometimes get error messages printing instead of my document.	Unfortunately, some Unix applications may generate non-compliant PostScript output that may not be supported by Ghostscript, or even the printer itself in PostScript mode. You can try to capture the output to a file and view the results with Ghostscript (gv or ghostview will allow you to do so interactively) and see if you get error messages. However, since the application is probably at fault, contact your software vendor to inform them of the issue.	
Some color images come out all black.	This is a known bug in Ghostscript (until GNU Ghostscript version 7.05) when the base color space of the document is indexed color space and it is converted through CIE color space. Because Postscript uses CIE color space for Color Matching System, you should upgrade Ghostscript on your system to at least GNU Ghostscript version 7.06 or later. You can find recent Ghostscript versions at www.ghostscript.com.	
The machine does not print.	The CUPS (Common Unix Printing System) version distributed with SuSE Linux 9.2 (cups-1.1.21) has a problem with ipp (Internet Printing Protocol) printing. Use the socket printing instead of ipp or install later version of CUPS (cups-1.1.22 or higher).	
Some color images come out in unexpected color.	This is a known bug in Ghostscript (until GNU Ghostscript version 7.xx) when the base color space of the document is indexed RGB color space and it is converted through CIE color space. Because Postscript uses CIE color space for Color Matching System, you should upgrade Ghostscript on your system to at least GNU Ghostscript version 8.xx or later. You can find recent Ghostscript versions at www.ghostscript.com.	
The printer does not print PDF file correctly. Some parts of graphics, text, or illustrations are missing.	Incompatibility between the PDF file and the Acrobat products: Printing the PDF file as an image may solve this problem. Turn on Print As I mage from the Acrobat printing options. Note: It will take longer to print when you print a PDF file as an image.	

7

Using Your Printer on a Network

If you work in a networked environment, the printer can be shared by other users on the network.

This chapter includes:

- About Sharing the Printer on a Network
- Setting Up a Network-Connected Printer(CLP-300N only)

Note: If you are a CLP-300N user, you can only connect your printer to a network locally, for use via a single computer.

About Sharing the Printer on a Network

If you work in a networked environment, you can connect your printer to the network.

Locally-Shared Printer

You can connect the printer directly to a selected computer, which is called the "host computer" on the network. The printer can then be shared by other users on the network through a Windows 98/Me/XP/NT 4.0/2000/2003 network printer connection.

For details about sharing the printer locally, see the **Software Section**.

Wired Network-connected Printer (CLP-300N only)

The CLP-300N printer has a built-in network interface. For more information about connecting your printer to a network, see 2.6.

Printing Across a Network

Whether the printer is locally connected or network-connected, you need to install the CLP-300 series printer software on each computer that prints documents using the printer.

Setting Up a Network-Connected Printer(CLP-300N only)

You have to set up the network protocols on the printer to use it as your network printer. Setting protocols can be accomplished by using the supplied network program. Please refer to the Network Printer User's Guide.

Supported Operating Systems

Note: The operating systems supported by the network card may be different than the operating systems supported by the printer. The following table shows the network environments supported by the printer.

Item	Requirements
Network Interface	Ethernet 10/100 Base-TX (standard)
Network Operating System	 Windows 98/Me/NT 4.0/2000/2003/ XP Various Linux OS Macintosh OS 10.3 ~ 10.4
Network Protocols	TCP/IP on Windows IPP, SNMP
Dynamic Addressing Server	DHCP, BOOTP

- TCP/IP: Transmission Control Protocol/Internet Protocol
- DHCP: Dynamic Host Configuration Protocol
- BOOTP: Bootstrap Protocol

8 Specifications

This chapter includes:

- Printer Specifications
- Paper Specifications

Printer Specifications

Item	Specifications and Description	
Print speed*	Black and white: Up to 16 PPM in A4 (17 PPM in Letter) Color: Up to 4 PPM in A4(Letter)	
Resolution	Up to 2400 x 600 dpi effective output	
First print out time	From ready Black and white: Less than 14 seconds Color: Less than 26 seconds	
	From coldboot Black and white: Less than 45 seconds Color: Less than 57 seconds	
Warm-up time	Less than 35 seconds	
Power rating	AC 110 ~ 127 V, 5 A, 50/60 Hz AC 220 ~ 240 V, 3 A, 50/60 Hz	
Power consumption	Average: 300 W Power save mode: Less than 17 W	
Noise level**	Printing mode Black and white: Less than 49 dBA Color: Less than 48 dBA Standby mode: Less than 35 dBA	
Consumables life	Black Toner Cartridge: Approx. 2,000 A4/Letter pages at 5% Coverage (Shipped with 1,500 pages Starter toner cartridge)	
	Yellow/Magenta/Cyan Toner Cartridge: Approx. 1,000 A4/Letter pages at 5% Coverage (Shipped with 700 pages Starter toner cartridge)	
	Imaging unit: Approx. 20,000 black or 12,500 color pages***	
	Waste toner container: Approx. 1,250 pages (full color 5% image) or 5,000 images	
Duty cycle	Monthly: Up to 24,200 images	
Weight	13.6 kg (including consumables) (30 lbs)	
Package weight	Paper: 2.4 Kg(5.29 lbs), Plastic: 380 g(0.84 lb)	
External dimensions (W x D x H)	390 x 344 x 265 mm (15.4 x 13.5 x 10.4 in)	
Operating	Temperature: 50 ~ 90.5 °F (10 ~ 32.5 °C)	
environment	Humidity: 20 ~ 80 % RH	

Item	Specifications and Description	
Printer language	SPL-C (Samsung Printer Language Color)	
Memory	CLP-300: 32 MB(non expandable)	
	CLP-300N: 64 MB(non expandable)	
Interface	CLP-300: USB 2.0	
	CLP-300N: USB 2.0, Ethernet 10/100 Base TX	
OS compatibility****	Windows 98/Me/NT 4.0/2000/XP/2003, Various Linux OS, Mac OS 10.3 ~10.4 Windows NT 4.0 is only supported on the CLP-300N.	

^{*} Print speed will be affected by operating system used, computing performance, application software, connecting method, media type, media size, and job complexity.

Paper Specifications

Overview

Your printer accepts a variety of print materials, such as cutsheet paper (including up to 100% recycled fiber content paper), envelopes, labels, and custom-size paper. Properties, such as weight, composition, grain, and moisture content, are important factors affecting the printer's performance and the output quality. Paper that does not meet the guidelines outlined in this User's Guide can cause the following problems:

- Poor print quality
- · Increased paper jams
- · Premature wear on the printer.

Notes:

- Some paper may meet all of the guidelines in this guide and still not produce satisfactory results. This may be the result of improper handling, unacceptable temperature and humidity levels, or other variables over which Samsung has no control.
- Before purchasing large quantities of paper, ensure that the paper meets the requirements specified in this User's Guide.



CAUTION: Using paper that does not meet these specifications may cause problems, requiring repairs. These repairs are not covered by the Samsung warranty or service agreements.

^{**} Sound Pressure Level, ISO7779

^{***} May be affected by operating environment, printing interval, media type, and media size.

^{****} Please visit www.samsungprinter.com to download the latest software version.

Supported Sizes of Paper

Tray [*] (mm/in)	Paper tray	Weight	Capacity**
Plain paper Letter (216 x 279/8.5 x 11) A4 (210 x 297/8.27 x 11.69) A5 (148 x 210/5.83 x 8.27) Executive (184 x 267/7.25 x 10.5)	Tray	60 to 90 g/ m ² (16 to 24 lb bond)	150 sheets of 75 g/m ² (20 lb bond) paper
Legal (216 x 356/8.5 x 14) JIS B5 (182 x 257/7.17 x 10.12) A6 (105 x 148/4.13 x 5.83) Oficio (216 x 343/8.5 x 13.5) Folio (216 x 330/8.5 x 13)	Manual feed	60 to 105 g/ m ² (16 to 23 lb bond)	1 sheet of paper
Envelopes No.10 (105 x 241/4.13 x 9.49) DL (110 x 220/4.33 x 8.66) C5 (162 x 229/6.38 x 9.02) C6 (114 x 162/4.49 x 6.38) Monarch (98 x 191/3.87 x 7.50) No.9 (98 x 225/3.87 x 8.87) 6 3/4 Envelop(92 x 165/3.62 x 6.5)	Manual feed	75 to 90 g/ m ² (20 to 24 lb bond)	1 sheet of paper
Labels*** Letter (216 x 279/8.5 x 11) A4 (210 x 297/8.3 x 11.7)	Manual feed	120 to 150 g/ m ² (32 to 40 lb bond)	1 sheet of paper
Transparency films Letter (216 x 279/8.5 x 11) A4 (210 x 297/8.3 x 11.7)	Manual feed	138 to 146 g/m ² (37 to 39 lb bond)	1 sheet of paper
Card stocks Post Card (101.6 x 152.4/4 x 6)	Manual feed	105 to 163 g/m ² (23 to 44 lb bond)	1 sheet of paper
Minimum size (custom, 76 x 127/3 x 5)	x 5) Manual feed		1 sheet of paper
Maximum size (Legal)	Manual feed	lb bond)	1 sheet of paper

^{*} The printer supports a wide range of media sizes.

Note: You may experience jams when using print materials with a length of less than 140 mm (5.5 in). For optimum performance, ensure that you are storing and handling the paper correctly. Please refer to "Printer and Paper Storage Environment" on page 8.3.

Guidelines for Using Paper

For the best result, use conventional 75 g/m 2 (20 lb) paper. Ensure that the paper is of good quality, and free of cuts, nicks, tears, spots, loose particles, dust, wrinkles, voids, and curled or bent edges.

If you are unsure of what type of paper you are loading, such as bond or recycled paper, check the label on the package.

The following problems may cause print quality deviations, jamming or even damage to the printer.

Symptom	Problem with Paper	Solution
Poor print quality or toner adhesion, problems with feeding	Too moist, too rough, too smooth, or embossed; faulty paper lot	Try another kind of paper, between 100 ~ 250 Sheffield, 4 ~ 5 % moisture content.
Dropout, jamming, curl	Stored improperly	Store paper flat in its moisture-proof wrapping.
Increased gray background shading/printer wear	Too heavy	Use lighter paper.
Excessive curl problems with feeding	Too moist, wrong grain direction, or short-grain construction	Use long-grain paper.
Jamming, damage to printer	Cutouts or perforations	Do not use paper with cutouts or perforations.
Problems with feeding	Ragged edges	Use good quality paper.

Notes

- Do not use letterhead paper printed with low-temperature inks, such as those used in some types of thermography.
- · Do not use raised or embossed letterhead.
- The printer uses heat and pressure to fuse toner to the paper. Ensure that any colored paper or preprinted forms use inks that are compatible with this fusing temperature (180 °C or 356 °F for 0.1 second).

^{**} Capacity may vary depending on print material's weight and thickness, and environmental conditions

^{***} Smoothness: 100 to 250 (Sheffield)

Paper Specifications

Category	Specifications
Acid Content	5.5 ~ 8.0 pH
Caliper	0.094 ~ 0.18 mm (3.0 ~ 7.0 mils)
Curl in Ream	Flat within 5 mm (0.02 in)
Cut Edge Conditions	Cut with sharp blades with no visible fray.
Fusing Compatibility	Must not scorch, melt, offset, or release hazardous emissions when heated to 180 °C (356 °F) for 0.1 second.
Grain	Long Grain
Moisture Content	4 % ~ 6 % by weight
Smoothness	100 ~ 250 Sheffield

Paper Output Capacity

Output Tray	Capacity
Face-down	100 sheets of 75 g/m ² paper

Paper Input Capacity

Input Tray	Capacity	
Tray	150 sheets of 75 g/m ² paper	
Manual feed	1 sheet of 60~163 g/m2 paper	

Printer and Paper Storage Environment

Paper storage environmental conditions directly affect the feed operation.

Ideally, the printer and paper storage environment should be at or near room temperature, and not too dry or humid. Remember that paper is hygroscopic; it absorbs and loses moisture rapidly.

Heat works with humidity to damage paper. Heat causes the moisture in paper to evaporate, while cold causes it to condense on the sheets. Heating systems and air conditioners remove most of the humidity from a room. As paper is opened and used, it loses moisture, causing streaks and smudging. Humid weather or water coolers can cause the humidity to increase in a room. As paper is opened and used it absorbs any excess moisture, causing light print and dropouts. Also, as paper loses and gains moisture it can become distorted. This can cause paper jams.

Care should be taken not to purchase more paper than can be used in a short time (about 3 months). Paper stored for long periods may experience heat and moisture extremes, which can cause damage. Planning is important to prevent damage to large supplies of paper.

Unopened paper in sealed reams can remain stable for several months before use. Opened packages of paper have more potential for environmental damage, especially if they are not wrapped with a moisture-proof barrier.

The paper storage environment should be properly maintained to ensure optimum printer performance. The required condition is 20 to 24 $^{\circ}$ C (68 to 75 $^{\circ}$ F), with a relative humidity of 45 $^{\circ}$ 6 to 55 $^{\circ}$ 8. The following guidelines should be considered when evaluating the paper's storage environment:

- Paper should be stored at or near room temperature.
- The air should not be too dry or too humid.
- The best way to store an opened ream of paper is to rewrap it tightly in its moisture-proof wrapping. If the printer environment is subject to extremes, unwrap only the amount of paper to be used during the day's operation to prevent unwanted moisture changes.

Envelopes

Envelope construction is critical. Envelope fold lines can vary considerably, not only between manufacturers, but also within a box from the same manufacturer. Successful printing on envelopes depends upon the quality of the envelopes. When selecting envelopes, consider the following factors:

- Weight: The weight of the envelope paper should not exceed 90 g/m² (24 lb) or jamming may occur.
- Construction: Prior to printing, envelopes should lie flat with less than 6 mm (0.25 in) curl, and should not contain air.

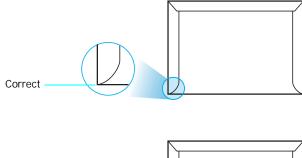
- Condition: Envelopes should not be wrinkled, nicked, or otherwise damaged.
- Temperature: You should use envelopes that are compatible with the heat and pressure of the printer.
- Size: You should only use envelopes within the following size ranges.

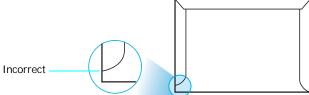
	Minimum	Maximum
Tray	3 x 5 in (76 x 127 mm)	8.5 x 14 in (216 x 356 mm)

Note: You may experience some paper jams when using any media with a length less than 127 mm(5 in). This may be caused by paper that has been affected by environmental conditions. For optimum performance, make sure you are storing and handling the paper correctly. Please refer to "Printer and Paper Storage Environment" on page 8.3.

Envelopes with Double Side Seams

Double side-seam construction has vertical seams at both ends of the envelope rather than diagonal seams. This style may be more likely to wrinkle. Be sure the seam extends all the way to the corner of the envelope as illustrated below.





Envelopes with Adhesive Strips or Flaps

Envelopes with a peel-off adhesive strip or with more than one flap that folds over to seal must use adhesives compatible with the heat and pressure in the printer. The extra flaps and strips might cause wrinkling, creasing, or even jams, and may even damage the fuser.

Envelope Margins

The following gives typical address margins for a commercial #10 or DL envelope.

Type of Address	Minimum	Maximum
Return address	0.6 in (15 mm)	2 in (51 mm)
Delivery address	2 in (51 mm)	3.5 in (90 mm)

NOTES:

- For best print quality, position margins no closer than 0.6 in (15 mm) from the edges of the envelope.
- Avoid printing over the area where the envelope's seams meet.

Envelope Storage

Proper storage of envelopes helps contribute to print quality. Envelopes should be stored flat. If air is trapped in an envelope, creating an air bubble, then the envelope may wrinkle during printing. See "Printing on Envelopes" on page 3.3.

Labels



CAUTION:

- To avoid damaging the printer, use only labels recommended for laser printers.
- Never print on the same sheet of labels more than once and never print on a partial sheet of labels.

When selecting labels, consider the quality of each component:

- Adhesives: The adhesive material should be stable at 180 °C (356 °F), the printer's fusing temperature.
- Arrangement: Only use labels with no exposed backing between them. Labels can peel off sheets with spaces between the labels, causing serious jams.
- Curl: Prior to printing, labels must lie flat with no more than 0.5 in (13 mm) of curl in any direction.
- Condition: Do not use labels with wrinkles, bubbles, or other indications of separation.

See "Printing on Labels" on page 3.3.

Transparencies

Transparencies used in the machine must be able to withstand 180 °C (356 °F), the machine's fusing temperature.



CAUTION: To avoid damaging the machine, use only transparencies recommended for use in laser printers.

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Software section

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1

Installing Printer Software in Windows

This chapter includes:

- Installing Printer Software
- Changing the Software Language
- Reinstalling Printer Software
- · Removing Printer Software

Installing Printer Software

You can install the printer software for local printing or network printing. To install the printer software on the computer, perform the appropriate installation procedure depending on the printer in use.

A printer driver is software that lets your computer communicate with your printer. The procedure to install drivers may differ depending on the operating system you are using.

All applications should be closed on your PC before beginning installation.

Installing Software for Local Printing

A local printer is a printer directly attached to your computer using a USB cable. If your printer is attached to a network, skip this step and go to "Installing Software for Network Printing" on page 7.

You can install the printer software using the typical or custom method.

Note: If the "New Hardware Wizard" window appears during the installation procedure, click **x** in the upper right corner of the box to close the window, or click **Cancel**.

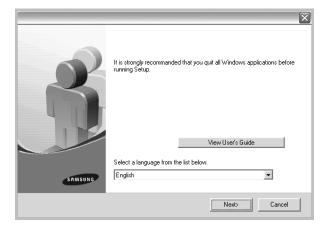
Typical Installation

This is recommended for most users. All components necessary for printer operations will be installed.

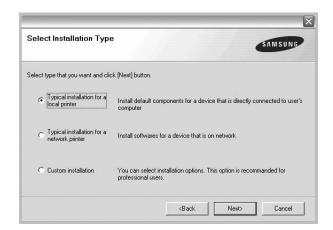
- 1 Make sure that the printer is connected to your computer and powered on.
- 2 Insert the supplied Printer software CD into your CD-ROM drive.

The Printer software CD should automatically run, and an installation window appears.

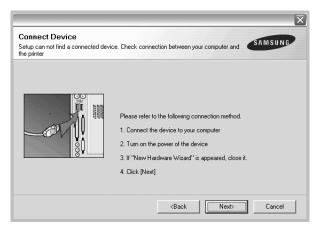
If the installation window does not appear, click **Start** and then **Run**. Type **X:\Setup.exe**, replacing "X" with the letter which represents your drive and click **OK**.



- 3 Click Next.
 - If necessary, select a language from the drop-down list.
 - View User's Guide: Allows you to view the User's Guide. If your computer doesn't have Adobe Acrobat, click on this option and it will automatically install Adobe Acrobat Reader for you.
- 4 Select Typical installation for a local printer. Click Next.



NOTE: If your printer is not already connected to the computer, the following window will appear.



- After connecting the printer, click Next.
- If you don't want to connect the printer at this time, click Next, and No on the following screen. Then the installation will start and a test page will not be printed at the end of the installation.
- The installation window that appears in this User's Guide may differ depending on the printer and interface in use.
- After the installation is finished, a window asking you to print a test page appears. If you choose to print a test page, select the checkbox and click Next.
 Otherwise, just click Next and skip to step 7.
- 6 If the test page prints out correctly, click Yes.
 If not, click No to reprint it.

7 To register yourself as a user of Samsung Printers in order to receive information from Samsung, select the checkbox and click **Finish**. You are now sent to the Samsung web site.

Otherwise, just click Finish.



Note: After setup is complete, if your printer driver doesn't work properly, reinstall the printer driver. See "Reinstalling Printer Software" on page 10.

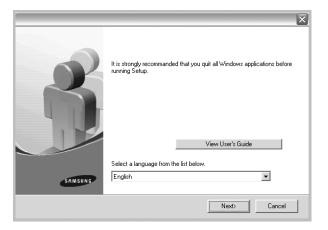
Custom Installation

You can choose individual components to install.

- 1 Make sure that the printer is connected to your computer and powered on.
- 2 Insert the supplied Printer software CD into your CD-ROM drive

The Printer software CD should automatically run, and an installation window appears.

If the installation window does not appear, click **Start** and then **Run**. Type **X:\Setup.exe**, replacing "X" with the letter which represents your drive and click **OK**.



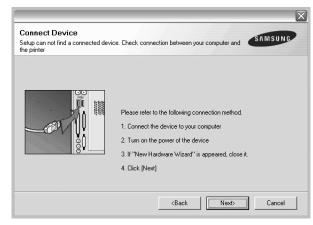
- 3 Click Next.
 - If necessary, select a language from the drop-down list.
 - View User's Guide: Allows you to view the User's Guide. If your computer doesn't have Adobe Acrobat, click on this option and it will automatically install Adobe Acrobat Reader for you.
- 4 Select Custom installation. Click Next.



5 Select your printer and click Next.



NOTE: If your printer is not already connected to the computer, the following window will appear.



- After connecting the printer, click Next.
- If you don't want to connect the printer at this time, click Next, and No on the following screen. Then the installation will start and a test page will not be printed at the end of the installation.
- The installation window that appears in this User's Guide may differ depending on the printer and interface in use.
- 6 Select the components to be installed and click **Next**.



- 7 After the installation is finished, a window asking you to print a test page appears. If you choose to print a test page, select the checkbox and click Next.
 - Otherwise, just click Next and skip to step 9.
- 8 If the test page prints out correctly, click **Yes**. If not, click **No** to reprint it.

9 To register yourself as a user of Samsung Printers in order to receive information from Samsung, select the checkbox and click Finish. You are now sent to the Samsung web site.

Otherwise, just click Finish.



Installing Software for Network Printing

When you connect your printer to a network, you must first configure the TCP/IP settings for the printer. After you have assigned and verified the TCP/IP settings, you are ready to install the software on each computer on the network.

You can install the printer software using the typical or custom method.

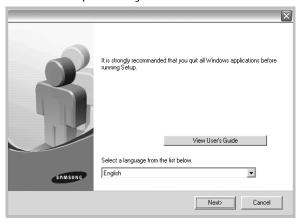
Typical Installation

This is recommended for most users. All components necessary for printer operations will be installed.

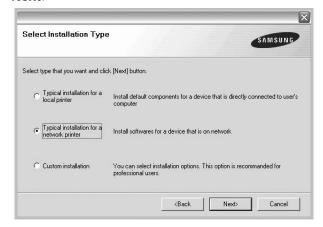
- 1 Make sure that the printer is connected to your network and powered on. For details about connecting to the network, see the supplied printer's User's Guide.
- 2 Insert the supplied Printer software CD into your CD-ROM drive.

The Printer software CD should automatically run, and an installation window appears.

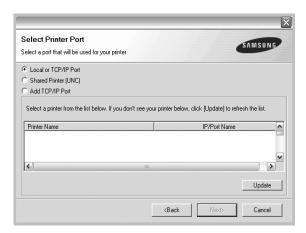
If the installation window does not appear, click **Start** and then **Run**. Type **X:\Setup.exe**, replacing "X" with the letter which represents your drive and click **OK**.



- 3 Click Next.
 - If necessary, select a language from the drop-down list.
 - View User's Guide: Allows you to view the User's Guide. If your computer doesn't have Adobe Acrobat, click on this option and it will automatically install Adobe Acrobat Reader for you.
- 4 Select Typical installation for a network printer. Click Next.



The list of printers available on the network appears. Select the printer you want to install from the list and then click Next.

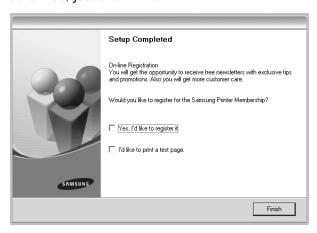


- If you do not see your printer on the list, click Update to refresh the list, or select Add TCP/IP Port to add your printer to the network. To add the printer to the network, enter the port name and the IP address for the printer.
- To find a shared network printer (UNC Path), select Shared Printer [UNC] and enter the shared name manually or find a shared printer by clicking the Browse button.

Note: To search the network printer, the firewall should be disabled.

6 After the installation is finished, a window appears asking you to print a test page and to register yourself as a user of Samsung Printers in order to receive information from Samsung. If you so desire, select the corresponding checkbox(es) and click Finish.

Otherwise, just click Finish.



NOTE: After setup is complete, if your printer driver doesn't work properly, reinstall the printer driver. See "Reinstalling Printer Software" on page 10.

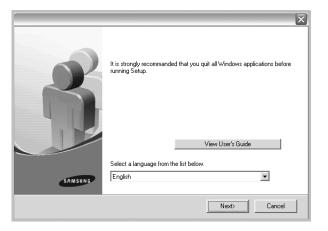
Custom Installation

You can choose individual components to install and set a specific IP address.

- 1 Make sure that the printer is connected to your network and powered on. For details about connecting to the network, see the supplied printer's User's Guide.
- 2 Insert the supplied Printer software CD into your CD-ROM drive

The Printer software CD should automatically run, and an installation window appears.

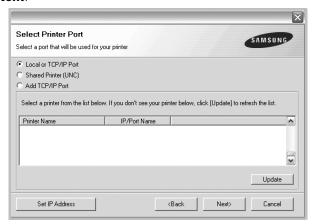
If the installation window does not appear, click **Start** and then **Run**. Type **X:\Setup.exe**, replacing "X" with the letter which represents your drive and click **OK**.



- 3 Click Next.
 - If necessary, select a language from the drop-down list.
 - View User's Guide: Allows you to view the User's Guide. If your computer doesn't have Adobe Acrobat, click on this option and it will automatically install Adobe Acrobat Reader for you.
- 4 Select Custom installation. Click Next.



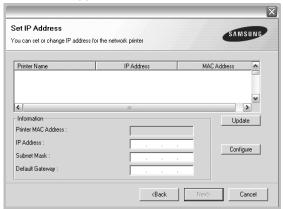
5 The list of printers available on the network appears. Select the printer you want to install from the list and then click Next.



- If you do not see your printer on the list, click Update to refresh the list, or select Add TCP/IP Port to add your printer to the network. To add the printer to the network, enter the port name and the IP address for the printer.
- To find a shared network printer (UNC Path), select **Shared Printer [UNC]** and enter the shared name manually or find a shared printer by clicking the **Browse** button.

Note: To search the network printer, the firewall should be disabled.

TIP: If you want to set a specific IP address on a specific network printer, click the **Set IP Address** button. The Set IP Address window appears. Do as follows:



- a. Select a printer to be set with a specific IP address from the list. To verify your printer's IP address or the MAC Address, print a Network Configuration page.
- b. Configure an IP address, subnet mask, and gateway for the printer manually and click **Configure** to set the specific IP address for the network printer.
- c. Click Next.

6 Select the components to be installed. After selecting the components, the following window appears. You can also change the printer name, set the printer to be shared on the network, set the printer as the default printer, and change the port name of each printer. Click **Next**.



To install this software on a server, select the **Setting up this printer on a server** checkbox.

7 After the installation is finished, a window appears asking you to print a test page and to register yourself as a user of Samsung Printers in order to receive information from Samsung. If you so desire, select the corresponding checkbox(es) and click **Finish**.

Otherwise, just click Finish.



Note: After setup is complete, if your printer driver doesn't work properly, reinstall the printer driver. See "Reinstalling Printer Software" on page 10.

Changing the Software Language

After installation of the software, you can change the display language.

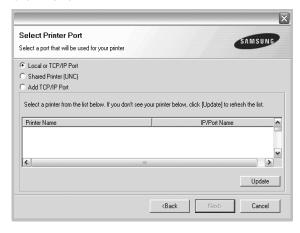
- 1 Click the Windows Start menu.
- 2 Select Programs or All Programs and then your printer driver name.
- 3 Select Language Selection.
- 4 Select the desired language from the language selection window, and click **OK**.

Reinstalling Printer Software

You can reinstall the software if installation fails.

- 1 Start Windows.
- 2 From the Start menu select Programs or All Programs

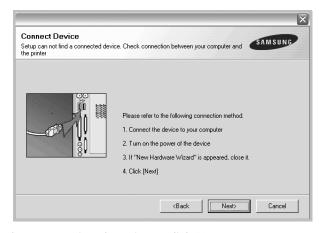
 → your printer driver name → Maintenance.
- 3 Select Repair and click Next.
- 4 The list of printers available on the network appears. Select the printer you want to install from the list and then click Next.



- If you do not see your printer on the list, click Update to refresh the list, or select Add TCP/IP Port to add your printer to the network. To add the printer to the network, enter the port name and the IP address for the printer.
- To find a shared network printer (UNC Path), select Shared Printer [UNC] and enter the shared name manually or find a shared printer by clicking the Browse button.

You will see a component list so that you can reinstall any item individually.

NOTE: If your printer is not already connected to the computer, the following window will appear.



- After connecting the printer, click Next.
- If you don't want to connect the printer at this time, click Next, and No on the following screen. Then the installation will start and a test page will not be printed at the end of the installation.
- The reinstallation window that appears in this User's Guide may differ depending on the printer and interface in use.
- 5 Select the components you want to reinstall and click Next.

If you installed the printer software for local printing and you select **your printer driver name**, the window asking you to print a test page appears. Do as follows:

- a. To print a test page, select the check box and click

 Next
- b. If the test page prints out correctly, click Yes.If it doesn't, click No to reprint it.
- **6** When the reinstallation is done, click **Finish**.

Removing Printer Software

- 1 Start Windows.
- 2 From the Start menu select Programs or All Programs

 → your printer driver name → Maintenance.
- 3 Select **Remove** and click **Next**.
 - You will see a component list so that you can remove any item individually.
- 4 Select the components you want to remove and then click **Next**.
- When your computer asks you to confirm your selection, click **Yes**.
 - The selected driver and all of its components are removed from your computer.
- **6** After the software is removed, click **Finish**.

2 Basic Printing

This chapter explains the printing options and common printing tasks in Windows.

This chapter includes:

- Printing a Document
- Printer Settings
 - Layout Tab
 - Paper Tab
 - Graphics Tab
 - Extras Tab
 - About Tab
 - Printer Tab
 - Using a Favorite Setting
 - Using Help

Printing a Document

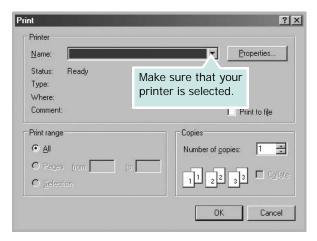
NOTES:

- Your printer driver Properties window that appears in this User's Guide may differ depending on the printer in use. However the composition of the printer properties window is similar.
- Check the Operating System(s) that are compatible with your printer. Please refer to the OS Compatibility section of Printer Specifications in your Printer User's Guide.
- If you need to know the exact name of your printer, you can check the supplied Printer software CD.

The following procedure describes the general steps required for printing from various Windows applications. The exact steps for printing a document may vary depending on the application program you are using. Refer to the User's Guide of your software application for the exact printing procedure.

- 1 Open the document you want to print.
- 2 Select Print from the File menu. The Print window is displayed. It may look slightly different depending on your application.

The basic print settings are selected within the Print window. These settings include the number of copies and print range.



- 3 Select your printer driver from the Name drop-down list.
- 4 To take advantage of the printer features provided by your printer driver, click **Properties** or **Preferences** in the application's Print window. For details, see "Printer Settings" on page 13.
 - If you see **Setup**, **Printer**, or **Options** in your Print window, click it instead. Then click **Properties** on the next screen.
- 5 Click **OK** to close the printer properties window.
- **6** To start the print job, click **OK** or **Print** in the Print window.

Printer Settings

You can use the printer properties window, which allows you to access all of the printer options you need when using your printer. When the printer properties are displayed, you can review and change the settings needed for your print job.

Your printer properties window may differ, depending on your operating system. This Software section shows the Properties window for Windows XP.

Your printer driver **Properties** window that appears in this User's Guide may differ depending on the printer in use.

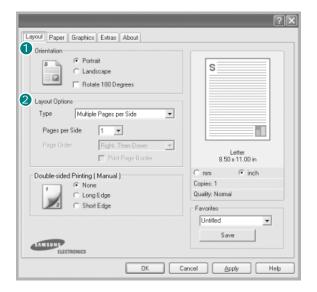
If you access printer properties through the Printers folder, you can view additional Windows-based tabs (refer to your Windows User's Guide) and the Printer tab (see "Printer Tab" on page 16).

Notes:

- Most Windows applications will override settings you specify in the printer driver. Change all print settings available in the software application first, and change any remaining settings using the printer driver.
- The settings you change remain in effect only while you are using the current program. To make your changes permanent, make them in the Printers folder.
- The following procedure is for Windows XP. For other Windows OS, refer to the corresponding Windows User's Guide or online help.
- 1. Click the Windows Start button.
- 2. Select Printers and Faxes.
- 3. Select your printer driver icon.
- 4. Right-click on the printer driver icon and select **Printing Preferences**.
- 5. Change the settings on each tab, click OK.

Layout Tab

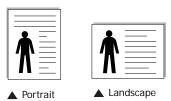
The **Layout** tab provides options to adjust how the document appears on the printed page. The **Layout Options** includes **Multiple Pages per Side** and **Poster**. See "Printing a Document" on page 12 for more information on accessing printer properties.



Orientation

Orientation allows you to select the direction in which information is printed on a page.

- Portrait prints across the width of the page, letter style.
- Landscape prints across the length of the page, spreadsheet style.



Rotate 180 Degrees allows you to rotate the page, 180 degrees.

2 Layout Options

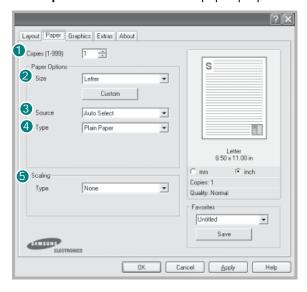
Layout Options allows you to select advanced printing options. You can choose **Multiple Pages per Side**, **Poster** and **Booklet**.

- For details, see "Printing Multiple Pages on One Sheet of Paper (N-Up Printing)" on page 17.
- For details, see "Printing Posters" on page 18.
- For details, see "Printing Booklets" on page 18.

Paper Tab

Use the following options to set the basic paper handling specifications when you access the printer properties. See "Printing a Document" on page 12 for more information on accessing printer properties.

Click the Paper tab to access various paper properties.



Copies

Copies allows you to choose the number of copies to be printed. You can select 1 to 999 copies.

Size

Size allows you to set the size of paper you loaded in the tray. If the required size is not listed in the **Size** box, click **Custom**. When the **Custom Page Size** window appears, set the paper size and click **OK**. The setting appears in the list so that you can select it.

Source

Make sure that **Source** is set to the corresponding paper tray. Use **Manual Feed** when printing on special materials like envelopes and transparencies. You have to load one sheet at a time into the Manual Tray.

4 Type

Set **Type** to correspond to the paper loaded in the tray from which you want to print. This will let you get the best quality printout. If not, print quality may not be acheived as you want.

Thin: Less than 19 lb (70 g/m²) thin paper.

Thick: 24 lb to 32 lb (90~120 g/m²) thick paper.

Cotton: 20 lb to 24 lb (75~90 g/m²) cotton paper such as Gilbert

25 % and Gilbert 100 %.

Plain Paper: Normal plain paper. Select this type if your printer is monochrome and printing on the 16 lb (60 g/m^2) cotton paper.

Recycled: 20 lb to 24 lb (75~90 g/m²) recycled paper.

Color Paper: 20 lb to 24 lb (75~90 g/m²) color-backgrounded

paper.

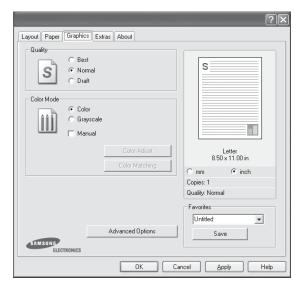
Scaling

Scaling allows you to automatically or manually scale your print job on a page. You can choose from **None**, **Reduce/Enlarge**, and **Fit to Page**.

- For details, see "Printing a Reduced or Enlarged Document" on page 20.
- For details, see "Fitting Your Document to a Selected Paper Size" on page 20.

Graphics Tab

Use the following Graphic options to adjust the print quality for your specific printing needs. See "Printing a Document" on page 12 for more information on accessing printer properties. Click the **Graphics** tab to display the properties shown below.



Quality

The Resolution options you can select may vary depending on your printer model. The higher the setting, the sharper the clarity of printed characters and graphics. The higher setting also may increase the time it takes to print a document.

Color Mode

You can choose color options. Setting to **Color** typically produces the best possible print quality for color documents. If you want to print a color document in grayscale, select **Grayscale**. If you want to adjust the color options manually, select **Manual** and click the **Color Adjust** or **Color Matching** button.

- Color Adjust: You can adjust the appearance of images by changing the settings in the Levels option.
- **Color Matching**: You can adjust the appearance of images by changing the settings in the **Settings** option.

Advanced Options

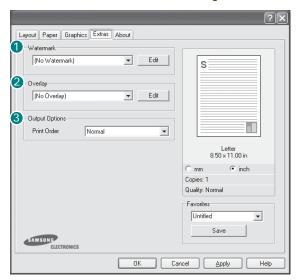
You can set advanced settings by clicking the **Advanced Options** button.

- TrueType Options: This option determines what the driver tells the printer about how to image the text in your document.
 Select the appropriate setting according to the status of your document. This option may be available only in Windows 9x/Me, depending on your particular printer model.
 - Download as Bit I mage: When this option is selected, the driver will download the font data as bitmap images.
 Documents with complicated fonts, such as Korean or Chinese, or various other fonts, will print faster in this setting.
 - Print as Graphics: When this option is selected, the driver will download any fonts as graphics. When printing documents with high graphic content and relatively few TrueType fonts, printing performance (speed) may be enhanced in this setting.
- **Print All Text Black**: When the **Print All Text Black** option is checked, all text in your document prints solid black, regardless of the color it appears on the screen.
- Darken Text: When the Darken Text option is checked, all text in your document is allowed to print darker than on a normal document. Some printers do not support this feature.

Extras Tab

You can select output options for your document. See "Printing a Document" on page 12 for more information about accessing the printer properties.

Click the **Extras** tab to access the following feature:



1 Watermark

You can create a background text image to be printed on each page of your document. For details, see "Using Watermarks" on page 21.

Overlay

Overlays are often used to take the place of preprinted forms and letterhead paper. For details, see "Using Overlays" on page 22.

Note: The Overlay feature is not supported in NT 4.0.

3 Output Options

- **Print Order**: You can set the sequence in which the pages print. Select the print order from the drop-down list.
 - **Normal**: Your printer prints all pages from the first page to the last page.
 - **Reverse All Pages**: Your printer prints all pages from the last page to the first page.
 - **Print Odd Pages**: Your printer prints only the odd numbered pages of the document.
 - **Print Even Pages**: Your printer prints only the even numbered pages of the document.

About Tab

Use the **About** tab to display the copyright notice and the version number of the driver. If you have an Internet browser, you can connect to the Internet by clicking on the web site icon. See "Printing a Document" on page 12 for more information about accessing printer properties.

Printer Tab

If you access printer properties through the **Printers** folder, you can view the **Printer** tab. You can set the printer configuration.

The following procedure is for Windows XP. For other Windows OS, refer to the corresponding Windows User's Guide or online help.

- 1 Click the Windows **Start** menu.
- 2 Select Printers and Faxes.
- 3 Select your printer driver icon.
- 4 Right-click on the printer driver icon and select **Properties**.
- 5 Click the **Printer** tab and set the options.

Using a Favorite Setting

The **Favorites** option, which is visible on each properties tab, allows you to save the current properties settings for future

To save a Favorites item:

- 1 Change the settings as needed on each tab.
- 2 Enter a name for the item in the **Favorites** input box.



3 Click Save.

When you save **Favorites**, all current driver settings are saved.

To use a saved setting, select the item from the **Favorites** drop down list. The printer is now set to print according to the Favorites setting you selected.

To delete a Favorites item, select it from the list and click **Delete**.

You can also restore the printer driver's default settings by selecting **Printer Default** from the list.

Using Help

Your printer has a help screen that can be activated by clicking the **Help** button in the printer properties window. These help screens give detailed information about the printer features provided by the printer driver.

You can also click 1 from the upper right corner of the window, and then click on any setting.

3

Advanced Printing

This chapter explains printing options and advanced printing tasks.

Notes:

- Your printer driver Properties window that appears in this User's Guide may differ depending on the printer in use. However the composition of the printer properties window is similar.
- If you need to know the exact name of your printer, you can check the supplied Printer software CD.

This chapter includes:

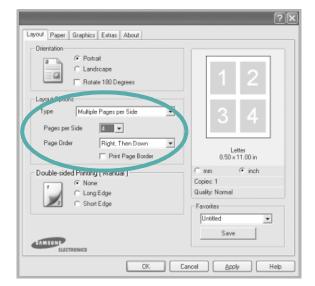
- Printing Multiple Pages on One Sheet of Paper (N-Up Printing)
- Printing Posters
- · Printing Booklets
- · Printing on Both Sides of Paper
- · Printing a Reduced or Enlarged Document
- · Fitting Your Document to a Selected Paper Size
- Using Watermarks
- Using Overlays

Printing Multiple Pages on One Sheet of Paper (N-Up Printing)



You can select the number of pages to print on a single sheet of paper. To print more than one page per sheet, the pages will be reduced in size and arranged in the order you specify. You can print up to 16 pages on one sheet.

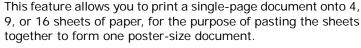
- 1 To change the print settings from your software application, access printer properties. See "Printing a Document" on page 12.
- 2 From the Layout tab, choose Multiple Pages per Side in the Type drop-down list.
- 3 Select the number of pages you want to print per sheet (1, 2, 4, 6, 9, or 16) in the **Pages per Side** drop-down list.



- 4 Select the page order from the **Page Order** drop-down list, if necessary.
 - Check **Print Page Border** to print a border around each page on the sheet.
- 5 Click the Paper tab, select the paper source, size, and type.
- 6 Click OK and print the document.

Printing Posters







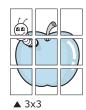
- 1 To change the print settings from your software application, access printer properties. See "Printing a Document" on page 12.
- Click the Layout tab, select Poster in the Type dropdown list.



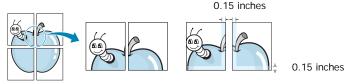
3 Configure the poster option:

You can select the page layout from **2x2**, **3x3**, or **4x4**. If you select **2x2**, the output will be automatically stretched to cover 4 physical pages.





Specify an overlap in millimeters or inches to make it easier to pasting the sheets together.



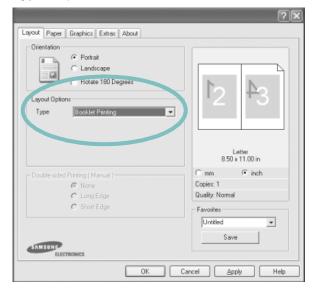
- 4 Click the **Paper** tab, select the paper source, size, and type.
- 5 Click **OK** and print the document. You can complete the poster by pasting the sheets together.

Printing Booklets



This printer feature allows you to print your document on both sides of the paper and arranges the pages so that the paper can be folded in half after printing to produce a booklet.

- 1 To change the print settings from your software application, access the printer properties. See "Printing a Document" on page 12.
- 2 From the Layout tab, choose Booklet Printing from the Type drop-down list.



Note: The booklet printing option is available when A4, Letter, Legal, or Folio size is selected in the **Size** option on the **Paper** tab.

- 3 Click the Paper tab, and select the paper source, size, and type.
- 4 Click **OK** and print the document.
- 5 After printing, fold and staple the pages.

Printing on Both Sides of Paper

You can print on both sides of a sheet of paper. Before printing, decide how you want your document oriented.

The options are:

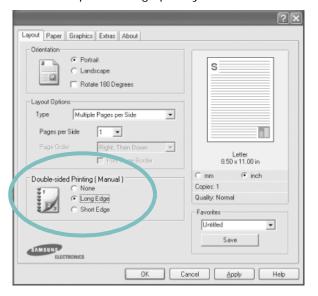
- Printer Setting, if you select this option, this feature is determined by the setting you've made on the control panel of the printer. Some printers do not support this feature.
- None
- Long Edge, which is the conventional layout used in book binding.
- Short Edge, which is the type often used with calendars.



Note:

- Do not print on both sides of labels, transparencies, envelopes, or thick paper. Paper jamming and damage to the printer may result.
- To use double-sided printing, you can use only the following paper sizes: A4, Letter, Legal, and Folio, with a weight of 20~24 lbs (75~90 g/m²).

- 1 To change the print settings from your software application, access printer properties. "Printing a Document" on page 12.
- **2** From the **Layout** tab, select the paper orientation.
- 3 From the **Double-sided Printing[Manual]** section, select the duplex binding option you want.



- 4 Click the Paper tab and select the paper source, size, and type.
- 5 Click **OK** and print the document.

NOTE: If your printer does not have a duplex unit, you should complete the printing job manually. The printer prints every other page of the document first. After printing the first side of your job, the Printing Tip window appears. Follow the onscreen instructions to complete the printing job.

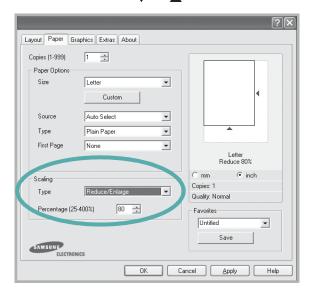
Printing a Reduced or Enlarged Document





You can change the size of a page's content to appear larger or smaller on the printed page.

- 1 To change the print settings from your software application, access printer properties. See "Printing a Document" on page 12.
- 2 From the Paper tab, select Reduce/Enlarge in the Type drop-down list.
- 3 Enter the scaling rate in the Percentage input box.
 You can also click the ▼ or ▲ button.



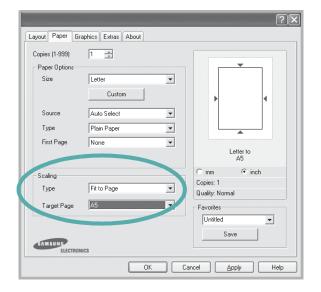
- 4 Select the paper source, size, and type in **Paper Options**.
- 5 Click **OK** and print the document.

Fitting Your Document to a Selected Paper Size



This printer feature allows you to scale your print job to any selected paper size regardless of the digital document size. This can be useful when you want to check fine details on a small document.

- 1 To change the print settings from your software application, access printer properties. See "Printing a Document" on page 12.
- 2 From the Paper tab, select Fit to Page in the Type dropdown list.
- 3 Select the correct size from the **Target Page** drop-down list.



- 4 Select the paper source, size, and type in **Paper Options**.
- 5 Click **OK** and print the document.

Using Watermarks

The Watermark option allows you to print text over an existing document. For example, you may want to have large gray letters reading "DRAFT" or "CONFIDENTIAL" printed diagonally across the first page or all pages of a document.

There are several predefined watermarks that come with the printer, and they can be modified, or you can add new ones to the list.

Using an Existing Watermark

- 1 To change the print settings from your software application, access printer properties. See "Printing a Document" on page 12.
- 2 Click the Extras tab, and select the desired watermark from the Watermark drop-down list. You will see the selected watermark in the preview image.

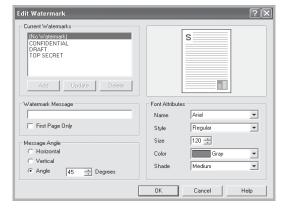


3 Click **OK** and start printing.

Note: The preview image shows how the page will look when it is printed.

Creating a Watermark

- 1 To change the print settings from your software application, access printer properties. See "Printing a Document" on page 12.
- 2 Click the Extras tab, and click the Edit button in the Watermark section. The Edit Watermark window appears.



- 3 Enter a text message in the **Watermark Message** box. You can enter up to 40 characters. The message displays in the preview window.
 - When the **First Page Only** box is checked, the watermark prints on the first page only.
- 4 Select watermark options.
 - You can select the font name, style, size, or grayscale level from the **Font Attributes** section and set the angle of the watermark from the **Message Angle** section.
- 5 Click Add to add a new watermark to the list.
- **6** When you have finished editing, click **OK** and start printing.

To stop printing the watermark, select **<No Watermark>** from the **Watermark** drop-down list.

Editing a Watermark

- 1 To change the print settings from your software application, access printer properties. See "Printing a Document" on page 12.
- 2 Click the Extras tab and click the Edit button in the Watermark section. The Edit Watermark window appears.
- 3 Select the watermark you want to edit from the Current Watermarks list and change the watermark message and options.
- 4 Click Update to save the changes.
- 5 Click **OK** until you exit the Print window.

Deleting a Watermark

- 1 To change the print settings from your software application, access printer properties. See "Printing a Document" on page 12.
- 2 From the Extras tab, click the Edit button in the Watermark section. The Edit Watermark window appears.
- 3 Select the watermark you want to delete from the Current Watermarks list and click Delete.
- 4 Click **OK** until you exit the Print window.

Using Overlays

What is an Overlay?



An overlay is text and/or images stored in the computer hard disk drive (HDD) as a special file format that can be printed on any document. Overlays are often used to take the place of preprinted forms and letterhead paper. Rather than using preprinted letterhead, you can create an overlay containing the exact same information that is currently on your letterhead. To print a letter with your company's letterhead, you do not need to load preprinted letterhead paper in the printer. You need only tell the printer to print the letterhead overlay on your document.

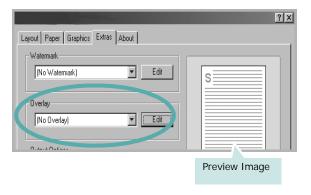
Note: The Overlay feature is not supported in NT 4.0.

Creating a New Page Overlay

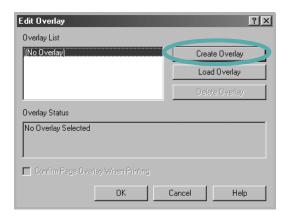


To use a page overlay, you must create a new page overlay containing your logo or image.

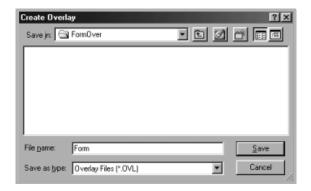
- 1 Create or open a document containing text or an image for use in a new page overlay. Position the items exactly as you wish them to appear when printed as an overlay.
- 2 To save the document as an overlay, access printer properties. See "Printing a Document" on page 12.
- 3 Click the Extras tab, and click Edit button in the Overlay section.



4 In the Edit Overlay window, click Create Overlay.



In the Create Overlay window, type a name in the **File name** box. Select the destination path, if necessary. (The default is C:\Formover).



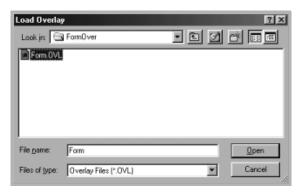
- 6 Click Save. The name appears on the Overlay List box.
- 7 Click **OK** or **Yes** to finish creating.
 The file is not printed. Instead it is stored on your computer hard disk drive.

NOTE: The overlay document size must be the same as the documents you print with the overlay. Do not create an overlay with a watermark.

Using a Page Overlay

After an overlay has been created, it is ready to be printed with your document. To print an overlay with a document:

- 1 Create or open the document you want to print.
- 2 To change the print settings from your software application, access printer properties. See "Printing a Document" on page 12.
- 3 Click the Extras tab.
- 4 Select the desired overlay from the **Overlay** drop-down list box.
- If the overlay file you want does not appear in the Overlay list, click Edit button and Load Overlay, and select the overlay file.



If you have stored the overlay file you want to use in an external source, you can also load the file when you access the **Load Overlay** window.

After you select the file, click **Open**. The file appears in the **Overlay List** box and is available for printing. Select the overlay from the **Overlay List** box.



- 6 If necessary, click Confirm Page Overlay When Printing. If this box is checked, a message window appears each time you submit a document for printing, asking you to confirm your wish to print an overlay on your document.
 - If this box is not checked and an overlay has been selected, the overlay automatically prints with your document.
- 7 Click **OK** or **Yes** until printing begins.
 The selected overlay downloads with your print job and prints on your document.

NOTE: The resolution of the overlay document must be the same as that of the document you will print with the overlay.

Deleting a Page Overlay

You can delete page overlays that you no longer use.

- 1 In the printer properties window, click the **Extras** tab.
- 2 Click the Edit button in the Overlay section.
- 3 Select the overlay you want to delete from the **Overlay** List box.
- 4 Click **Delete Overlay**.
- 5 When a confirming message window appears, click **Yes**.
- 6 Click **OK** until you exit the Print window.

Sharing the Printer Locally

You can connect the printer directly to a selected computer, which is called "host computer," on the network.

The following procedure is for Windows XP. For other Windows OS, refer to the corresponding Windows User's Guide or online help.

NOTES:

- Check the Operating System(s) that are compatible with your printer. Please refer to the OS Compatibility section of Printer Specifications in your Printer User's Guide.
- If you need to know the exact name of your printer, you can check the supplied Printer software CD.

Setting Up a Host Computer

- 1 Start Windows.
- 2 From the Start menu select Printers and Faxes.
- 3 Double-click your printer driver icon.
- 4 From the **Printer** menu, select **Sharing**.
- 5 Check the **Share this printer** box.
- 6 Fill in the **Shared Name** field, and then click **OK**.

Setting Up a Client Computer

- 1 Right-click the Windows **Start** button and select **Explorer**.
- 2 Open your network folder in the left column.
- 3 Click the shared name.
- 4 From the **Start** menu select **Printers and Faxes**.
- 5 Double-click your printer driver icon.
- 6 From the Printer menu, select Properties.
- 7 From the **Ports** tab, click **Add Port**.
- 8 Select Local Port and click New Port.
- 9 Fill in the **Enter a port name** field with the shared name.
- 10 Click **OK** and click **Close**.
- 11 Click Apply and click OK.

Using Smart Panel

Smart Panel is a program that monitors and informs you of the status of the printer, and allows you to customize the printer's settings. Smart Panel is installed automatically when you install the printer software.

NOTES:

- To use this program, you need:
 - Windows 98 or higher (Windows NT 4.0 can be used only for network-supported printers.) To check for Operating System(s) that are compatible with your printer, refer to Printer Specifications in your Printer User's Guide.
 - Mac OS X 10.3 or higher
 - Linux. To check for Linux systems that are compatible with your printer, refer to Printer Specifications in your Printer User's Guide.
 - Internet Explorer version 5.0 or higher for flash animation in HTML Help.
- If you need to know the exact name of your printer, you can check the supplied CD-ROM.

Understanding Smart Panel

If an error occurs while printing, Smart Panel appears automatically, showing the error.

You can also launch Smart Panel manually. Double-click the Smart Panel icon on the Windows task bar (in Windows), or Notification Area (in Linux). You can also click it on the status bar (in Mac OS X).



If you are a Windows user, from the **Start** menu, select **Programs** or **All Programs** \rightarrow **your printer driver name** \rightarrow **Smart Panel**.

NOTES:

- If you have already installed more than one Samsung printer, first select the printer model you want in order to use the corresponding Smart Panel. Right-click (in Windows or Linux) or click (in Mac OS X) the Smart Panel icon and select your printer name.
- The Smart Panel window and its contents shown in this Software section may differ depending on the printer in use.

The Smart Panel program displays the current status of the printer, the level of toner remaining in the toner cartridge(s) and various other information. You can also change settings.



1 Toner Level

You can view the level of toner remaining in the toner cartridge(s). The printer and the number of toner cartridge(s) shown in the above window may differ depending on the printer in use. Any printers do not have this feature.

2 Buy Now

You can order replacement toner cartridge(s) online.

3 Troubleshooting Guide

You can view Help to solve problems.

4 Printer Setting

You can configure various printer settings in the Printer Settings Utility window. Any printers do not have this feature.

Note: If your printer is connected to a network and you are a Windows user, the **SyncThru Web Service** window appears instead of the Printer Settings Utility window. Mac OS X and Linux do not support network environments.

5 Driver Setting (Only for Windows)

You can use the printer properties window, which allows you to access all of the printer options you need for using your printer. For details, See "Printer Settings" on page 13.

Opening the Troubleshooting Guide

Using the troubleshooting guide, you can view solutions for error status problems.

Right-click (in Windows or Linux) or click (in Mac OS X) the Smart Panel icon and select Troubleshooting Guide.

Using Printer Settings Utility

Using the Printer Settings Utility, you can configure and check print settings.

- 1 Right-click (in Windows or Linux) or click (in Mac OS X) the Smart Panel icon and select Printer Setting.
- 2 Change the settings.
- **3** To send the changes to the printer, click the **Apply** button.

Notes: If your printer is connected to a network, the SyncThru Web Service window appears instead of the Printer Settings Utility window.

Using Onscreen Help

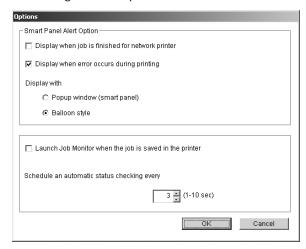
For more information about **Printer Settings Utility**, click



Changing the Smart Panel Program Settings

Right-click (in Windows or Linux) or click (in Mac OS X) the Smart Panel icon and select **Options**.

The following window opens.



- Display when job is finished for network printer: The computer shows the Smart Panel popup window or balloon when your job is complete in Windows. (Only for networksupported printers.)
- Display when error occurs during printing: The computer shows the Smart Panel popup window or balloon when an error occurs during printing.
- **Display with**: You can select how the computer shows you a message. If you select Popup window (smart panel), the message appears in the Smart Panel popup window in Windows and Mac OS X.
- · Launch Job Monitor when the job is saved in the printer: If you store print jobs on the printer's hard disk, the computer opens the Job Monitor window in Windows. (Only for network-supported printers with built-in hard disks.)
- · Schedule an automatic status checking every: The computer updates the printer status regularly. Setting the value close to 1 second causes the computer to check the printer status more frequently, thereby allowing a faster response to any printer error.

Using Your Printer in Linux

You can use your printer in a Linux environment.

This chapter includes:

- System Requirements
- · Installing the Printer Driver
- Changing the Printer Connection Method
- Uninstalling the Printer Driver
- Using the Configuration Tool
- Changing LLPR Properties

System Requirements

Supported OS

- Red Hat 8.0 ~ 9.0
- Fedora Core 1, 2, 3
- Mandrake 9.2 ~ 10.1
- SuSE 8.2 ~ 9.2

Recommended Capacities

- Pentium IV 1 GHz or higher
- RAM 256 MB or higher
- HDD 1 GB or higher

Software

- Glibc 2.1 or higher
- GTK+ 1.2 or higher
- GhostScript

Notes:

- The Linux printer's properties window that appears in this User's Guide may differ depending on the printer in use. However the composition of the properties is similar.
- You can check your printer name in the supplied Printer software CD.

Installing the Printer Driver

- 1 Make sure that you connect the printer to your computer. Turn both the computer and the printer on.
- When the Administrator Login window appears, type in "root" in the Login field and enter the system password.

NOTE: You must log in as a super user (root) to install the printer software. If you are not a super user, ask your system administrator.

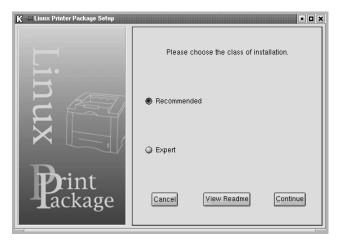
3 Insert the Printer software CD. The CD-ROM automatically runs.

NOTE: If the Printer software CD does not automatically run, click the licon at the bottom of the window. When the Terminal screen appears, type in:

[root@local /root]# mount -t iso9660 /dev/hdc /mnt/cdrom (Assuming that /dev/hdc is your CD-ROM path and you have /mnt/cdrom directory)

[root@local /root]# cd /mnt/cdrom (the CD-ROM directory)
[root@local cdrom]# ./setup.sh

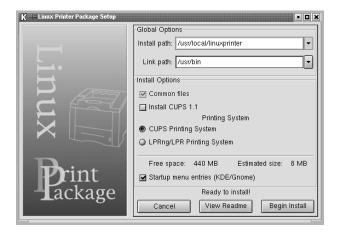
4 Select the type of installation, either Recommended or Expert, and then click Continue.



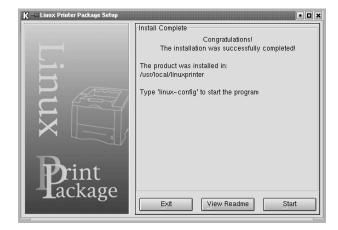
Recommended is fully automated and does not require any interaction. **Expert** installation allows you to select the install path or printing system.

5 If you selected **Recommended**, go to step 6.

For **Expert**, select the desired option and then click **Begin Install**.



The printer driver installation begins. When the installation is completed, click **Start**.



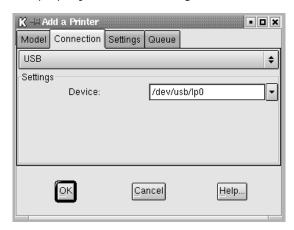
7 The Linux Printer Configuration window opens. Click the Add Printer icon on the toolbar at the top of the window.

NOTE: Depending on the printing system in use, the Administrator Login window may appear. Type in "**root**" in the **Login** field and enter the system password.

8 You see the printers currently installed in your system. Select the printer you want to use. The function tabs available for the selected printer appear at the top of the Add a Printer window.

NOTE: If the printer supports PS printing, it is recommended to select the PS driver.

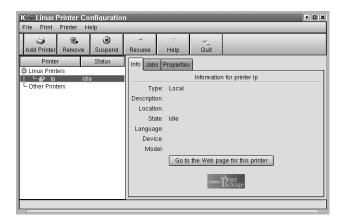
9 Click the **Connection** tab and ensure that the printer port is set properly. If it is not, change the device setting.



10 You can use the **Settings** tab and the **Queue** tab to view the printer's current settings. If necessary, you can change the settings.

Note: Options may differ depending on the printer in use. The **Description** and the **Location** field in the Queue screen may not appear depending on the printing system in use.

- 11 To exit, click OK.
- **12** When the window indicates that the new printer is successfully configured, click **OK**.
- 13 The Linux Printer Configuration window reappears. From the Info tab, you can view information about your printer driver. If necessary, you can change the printer's configuration. For details about changing the printer's configuration, see "Using the Configuration Tool" on page 30.



Changing the Printer Connection Method

If you change the printer connection method from USB to Networkl or vice versa while in use, you must reconfigure your Linux printer by adding the printer to your system. Take the following steps:

- 1 Make sure that you connect the printer to your computer. Turn both the computer and the printer on.
- When the Administrator Login window appears, type in "root" in the Login field and enter the system password.

NOTE: You must log in as a super user (root) to install a new printer to the printing system. If you are not a super user, ask your system administrator.

- 3 From the Startup Menu icon at the bottom of the desktop, select Linux Printer and then Configuration Tool.
 - You can also access the Linux Printer Configuration window by typing in "linux-config" from the Terminal screen.
- 4 When the Linux Printer Configuration window appears, click the Add Printer icon on the toolbar at the top of the window.
- 5 Click the Connection tab at the top of the Add a Printer window.

Ensure that the printer port is set properly. If it is not, change the device setting.



6 Click OK.

Uninstalling the Printer Driver

1 From the Startup Menu icon at the bottom of the desktop, select Linux Printer and then Configuration Tool.



You can also access the Linux Printer Configuration window by typing in "**linux-config**" from the Terminal screen.

- 2 In the Linux Printer Configuration window, select the Uninstall command from the File menu.
- 3 The Administrator Login window appears. Type in "root" in the Login field and enter the system password. Click Proceed.

NOTE: You must log in as a super user (root) to uninstall the printer software. If you are not a super user, ask your system administrator.

- 4 A message window asking for confirmation to proceed with the uninstallation appears. Click **Yes**.
- 5 Select Complete uninstall and then click Uninstall.



- 6 Click **OK** to begin uninstallation.
- When the uninstallation is completed, click Finished.

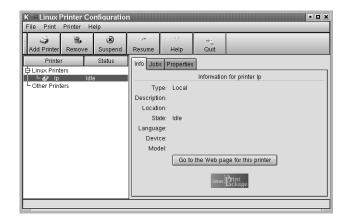
Using the Configuration Tool

The configuration tool accesses administrative tasks, including adding and removing new printers, and changing their global settings. Regular users can also run it to easily inspect job queues, examine printer properties and changing their local preferences.

To access the Configuration Tool:

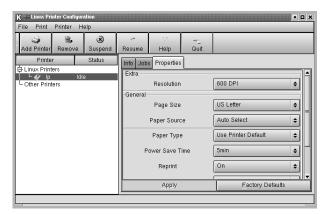
- 1 From the Startup Menu icon at the bottom of the screen, select **Linux Printer** and then **Configuration Tool**. The Linux Printer Configuration window appears.
 - You can also open this window from the Terminal screen by typing in "linux-config."
- The Linux Printer Configuration window shows a list of installed printers in the left pane. The right pane shows a number of tabs that display information regarding the currently selected printer.

Select your printer driver, if not currently selected.



3 The Info tab shows general information about the printer. If you are an Internet user, you can click Go to the Web page for this printer to access the Samsung web page. Click the Job tab to inspect and manage the job queue for the selected printer. You can suspend, resume, or delete a specific job(s) in the queue. If you drag a specific job(s), you can drop it into the print queue of another printer.

The **Properties** tab allows you to change the default printer settings.



NOTE: Regular users are able to override the system-wide default settings defined by the administrator. When a regular user clicks **Apply**, these custom settings will be saved in the user's profile and may be used later with LLPR. If the administrator is running the configuration tool, then the settings will be saved as the new global defaults.

Changing LLPR Properties

You can fine-tune the printer's properties by opening the LLPR Properties window.

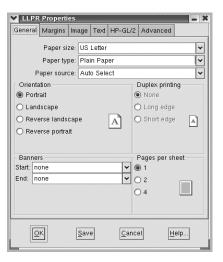
To open the LLPR Properties window:

- 1 From the application you are using, select the **Print**
- When the Linux LPR window opens, click Properties.



You can also open the LLPR Properties window in the following ways:

- •From the Startup Menu icon at the bottom of the screen, select **Linux Printer**, and then **Linux LPR**.
- •If the Linux Printer Configuration window is currently open, select **Test Print** from the **Print** menu.
- 3 The LLPR Properties window opens.



You will see the following six tabs at the top of the window:

- •General allows you to change the paper size, the paper type, the paper source, the orientation of the documents, enable the duplex feature, add start and end banners, and change the number of pages per sheet.
- Margins allows you to specify the page margins. The graphics on the right show the current settings. These margins do not apply when printing regular PostScript data
- •Image allows you to set image options that will be used when printing image files, i.e., when a non-PostScript document is passed to LLPR on the command line. Color settings will also take effect for postscript documents.
- •**Text** allows you to select the text density and turn the syntax coloring on or off.
- •**HP-GL/2** allows you to set default options to print HP-GL/2 format documents, used by some plotters.
- Advanced allows you to override the default settings for the printer.

If you click the **Save** button at the bottom of the window, the options will be retained between LLPR sessions.

Use the **Help** button to view details about the options in the window.

To apply the options, click **OK** in the LLPR Properties window. You will return to the Linux LPR window. To start printing, click **OK**.

Using Your Printer with a Macintosh

Your printer supports Macintosh systems with a built-in USB interface or 10/100 Base-TX network interface card. When you print a file from a Macintosh computer, you can use the CUPS driver by installing the PPD file.

Note: Some printers do not support a network interface. Make sure that your printer supports a network interface by referring to Printer Specifications in your Printer User's Guide.

This chapter includes:

- Installing Software for Macintosh
- Setting Up the Printer
- Printing

Installing Software for Macintosh

The Printer software CD that came with your printer provides you with the PPD file that allows you to use the CUPS driver or Apple LaserWriter driver (only available when you use a printer which supports the PostScript driver), for printing on a Macintosh computer.

Verify the following before you install the printer software:

Item	Requirements
Operating System	Mac OS 10.3 ~ 10.4
RAM	128 MB
Free Disk Space	200 MB

Install the Printer driver

- 1 Make sure that you connect your printer to the computer. Turn on your computer and printer.
- 2 Insert the Printer software CD which came with your printer into the CD-ROM drive.
- 3 Double-click CD-ROM icon that appears on your Macintosh desktop.
- 4 Double-click the Mac_Installer folder.
- 5 Double-click the **Mac_Printer** folder.
- 6 Double-click the Samsung SPLC Installer icon.
- 7 Enter the password and click **OK**.
- 8 The Samsung SPL Installer window opens. Click **Continue** and then click **Continue**.
- 9 Select Easy Install and click Install.
- **10** After the installation is finished, click **Quit**.

Uninstalling the Printer driver

Uninstall is required if you are upgrading the software, or if installation fails.

- 1 Insert the Printer software CD which came with your printer into the CD-ROM drive.
- 2 Double-click CD-ROM icon that appears on your Macintosh desktop.
- 3 Double-click the Mac_Installer folder.
- 4 Double-click the Mac_Printer folder.
- 5 Double-click the **Samsung SPLC Installer** icon.
- **6** Enter the password and click **OK**.
- 7 The Samsung SPL Installer window opens. Click **Continue** and then click **Continue**.
- 8 Select Uninstall and then click Uninstall.
- When the uninstallation is done, click Quit.

Setting Up the Printer

Set up for your printer will be different depending on which cable you use to connect the printer to your computer—the network cable or the USB cable.

For a Network-connected Macintosh

NOTE: Some printers do not support a network interface. Before connecting your printer, make sure that your printer supports a network interface by referring to Printer Specifications in your Printer User's Guide.

- 1 Follow the instructions on "Installing Software for Macintosh" on page 32 to install the PPD and Filter files on your computer.
- Open Print Setup Utility from the Utilities folder.
- 3 Click Add on the Printer List.
- 4 Select the IP Printing tab.
- 5 Select Socket/HP Jet Direct in Printer Type.
 - WHEN PRINTING A DOCUMENT CONTAINING MANY PAGES, PRINTING PERFORMANCE MAY BE ENHANCED BY CHOOSING SOCKET FOR PRINTER TYPE OPTION.
- 6 Enter the printer's IP address in the Printer Address field.
- 7 Enter the queue name in the Queue Name field. If you cannot determine the queue name for your printer server, try using the default queue first.
- 8 Select Samsung in Printer Model and your printer in Model Name.
- 9 Click Add.
- 10 Your printer's IP address appears on the **Printer List**, and is set as the default printer.

For a USB-connected Macintosh

- 1 Follow the instructions on "Installing Software for Macintosh" on page 32 to install the PPD and Filter files on your computer.
- 2 Open Print Setup Utility from the Utilities folder.
- 3 Click Add on the Printer List.
- 4 Select the **USB** tab.
- 5 Select Samsung in Printer Model and your printer in Model Name.
- 6 Click Add.

Your printer appears on the **Printer List**, and is set as the default printer.

Printing

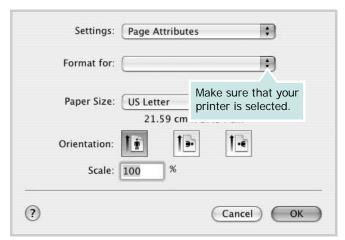
NOTES:

- The Macintosh printer's properties window that appears in this User's Guide may differ depending on the printer in use. However the composition of the printer properties window is similar.
- You can check your printer name in the supplied Printer software CD.

Printing a Document

When you print with a Macintosh, you need to check the printer software setting in each application you use. Follow these steps to print from a Macintosh.

- 1 Open a Macintosh application and select the file you want to print.
- 2 Open the File menu and click Page Setup (Document Setup in some applications).
- 3 Choose your paper size, orientation, scaling, and other options and click OK.



▲ Mac OS 10.3

- 4 Open the File menu and click Print.
- 5 Choose the number of copies you want and indicate which pages you want to print.
- 6 Click Print when you finish setting the options.

Changing Printer Settings

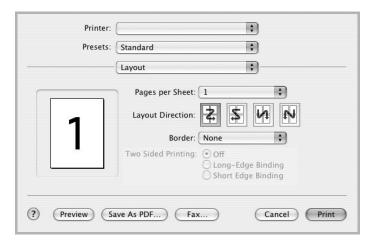
You can use advanced printing features when using your printer.

From your Macintosh application, select **Print** from the **File** menu. The printer name which appears in the printer properties window may differ depending on the printer in use. Except for the name, the composition of the printer properties window is similar.

Layout Setting

The **Layout** tab provides options to adjust how the document appears on the printed page. You can print multiple pages on one sheet of paper.

Select **Layout** from the **Presets** drop-down list to access the following features. For details, see "Printing Multiple Pages on One Sheet of Paper" on the next column.



▲ Mac OS 10.3

Printer Features Setting

The **Printer Features** tab provides options for selecting the paper type and adjusting print quality.

Select **Printer Features** from the **Presets** drop-down list to access the following features:



▲ Mac OS 10.3

Paper Type

Set type to correspond to the paper loaded in the tray from which you want to print. This will let you get the best quality printout.

Resolution(Quality)

The Resolution options you can select may vary depending on your printer model. You can select the printing resolution. The higher the setting, the sharper the clarity of printed characters and graphics. The higher setting also may increase the time it takes to print a document.

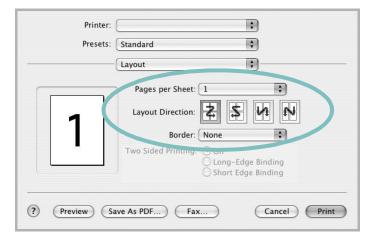
Color Mode

You can set the color options. Setting to **Color** typically produces the best possible print quality for color documents. If you want to print a color document in grayscale, select **Grayscale**.

Printing Multiple Pages on One Sheet of Paper

You can print more than one page on a single sheet of paper. This feature provides a cost-effective way to print draft pages.

- 1 From your Macintosh application, select **Print** from the **File** menu.
- 2 Select Layout.



- ▲ Mac OS 10.3
- 3 Select the number of pages you want to print on one sheet of paper on the **Pages per Sheet** drop-down list.
- 4 Select the page order from the **Layout Direction** option.

 To print a border around each page on the sheet, select the option you want from the **Border** drop-down list.
- 5 Click **Print**, and the printer prints the selected number of pages on one side of each page.

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